

Control Circuit Components

Push Button Units and Indicator Lights

1

2

3

4

5

6

7

8

9

10

Contents

Pages

Section Overview 10/2 - 10/3

3SB2, 16mm Mounting Diameter Pilot Devices

Introduction	10/4
Technical Specifications	10/5
PCB Mounting Instructions	10/6
Complete Units	10/7 - 10/8
Pushbutton and Selector Switch Operators	10/9
Key-operated Switches and Indicator Lights	10/10
Holders, Lampholders and Contact Blocks with Tabs	10/11
Holders, Lampholders and Contact Blocks with Solder Pins	10/12
Inserts, Legend Plates, and Accessories	10/13 - 10/19
Dimension Drawings	10/20

Sirius 3SB3 22mm Mounting Diameter Pilot Devices

Introduction	10/22 - 10/23
Technical Specifications	10/24 - 10/25
3SB3 Metal Round	
Complete Units	10/26 - 10/30
Pushbutton Operators	10/31 - 10/32
Emergency-stop Mushroom Pushbutton Operators	10/39
Indicator Lights	10/40
Selector Switch Operators	10/33 - 10/36
Key Operated Switch Operators	10/37 - 10/38
3SB3 Plastic Round	
Complete Units	10/41 - 10/47
Pushbutton Operators	10/48 - 10/49
Emergency-stop Mushroom Pushbutton Operators	10/53
Indicator Lights	10/54
Selector Switch Operators	10/50
Key Operated Switch Operators	10/51 - 10/52
Joystick Switches	10/56 - 10/58
Twin Pushbutton Operators	10/54 - 10/55
3SB3 Plastic Square	
Complete Units	10/59 - 10/60
Pushbutton Operators	10/61
Selector Switch Operators	10/62
Key Operated Switches	10/63
Emergency-stop Mushroom Pushbuttons	10/64
Indicator Lights	10/64
3SB3 Contact Blocks and Lampholders	10/65 - 10/68
3SB3 Special Key Operated Switches	10/69
3SB3 Contact Block Position Chart for Selector Switches	10/70
3SB3 Laser Inscription and Legend Plates	10/71 - 10/78
3SB3 Accessories and Spare Parts	10/79 - 10/86

Sirius 3SB3 22mm Enclosed Pushbutton Stations

Introduction	10/87
Assembled Metal and Plastic Enclosures with Standard Devices	10/88 - 10/89
Empty Enclosures	10/90
Customized Enclosures	10/91
Contact Blocks and Lampholders	10/92 - 10/93
Enclosure Accessories	10/95
Enclosure Labelling with Inscription Plates	10/94
Dimension Drawings	10/100 - 10/106
Wiring Schematic for Lampholders with Separate Lamp Test Function	10/107

22mm Communication Capable Networked Products

As Interface Adapter For E-Stop	10/96
Assembled Enclosures	10/97 - 10/98
Field Assembled Components for Enclosures	10/99

Contents

Pages

Sirius Signal Columns

Introduction	10/110 - 10/111
Technical Specifications	10/112
8WD42 signaling columns, 50 mm diameter and accessories	10/113 - 10/114
8WD44 signaling columns, 70 mm diameter and accessories	10/115 - 10/118
8WD53 beacons, 70 mm diameter	10/119
Dimensional Drawings	10/120 - 10/122

3SE2, 3SE3 Foot Switches

Introduction	10/108
Plastic and Metal Enclosures	10/109

Class 50 Standard Duty Control Stations

Introduction	10/123
Standard Duty Type 1 and 1B	10/124 - 10/128
Heavy Duty Type 4 Stations	10/129
Class 50 Accessories	10/130
Dimension Drawings	10/131

Class 51 NEMA Type 7/9 Hazardous Location Pilot Devices

Introduction	10/132
Pushbutton and Push-pull Operators	10/133
Indicator Lights	10/134
Push to Test/Illuminated Pushbutton Complete Units	10/135
Selector Switch Operators	10/136
Keyed Selector Switch Operators	10/137
Cam Selection Guide for Selector Switch	10/138
Stations and Enclosures	10/139
Accessories	10/140 - 10/142

Class 52 30.5mm Mounting Diameter Pilot Devices

Introduction	10/143
Momentary Push Button, Non-Illuminated	10/144 - 10/145
2 & 3 Position Push-Pull Mushroom Head Devices, Non-Illuminated	10/146 - 10/147
2 & 3 Position Push-Pull Mushroom Head Devices, Illuminated	10/148 - 10/149
2 Position Twist-to-Release Mushroom Head Devices, Non-Illuminated	10/150
2 Position Twist-to-Release Mushroom Head Devices, Illuminated	10/151
Indicator Light	10/152 - 10/153
Push Button & Push-to-Test, Illuminated	10/154 - 10/155
Push Button Mushroom Head Devices, Illuminated	10/156
Selector Switches, Illuminated	10/157
Selector Switch Short & Long Lever, Non-Illuminated	10/158 - 10/159
Keyed Selector Switch	10/160 - 10/161
Selector Push Button	10/162
Special Devices	10/163
Cam Selection Guide for Selector Switch, Keyed Selector Switch and Selector Pushbutton	10/164
Custom Selector Switch Designs	10/165
Accessories and Spare Parts	10/166 - 10/169
Dimensional Drawings	10/170 - 10/173

Class 52 30.5mm Enclosed Pushbutton Stations

Assembled Enclosures with Standard Devices	10/174 - 10/175
P30 Empty Enclosures Only	10/176
Enclosure Legend Plates	10/177
Enclosure Dimensions	10/178
Technical Specifications	10/179

Control and Signaling Devices

Push Button Units and Indicator Lights

16 mm mounting diameter, molded-plastic



3SB2

Page

Selection and ordering data

- 3SB22 complete units 10/7
- 3SB20 pushbuttons and lens assemblies 10/9
- 3SB2 holders, lampholders and contact blocks 10/11
- 3SB29 inserts, legend plates, and accessories 10/13

Introduction 10/4
Technical specifications 10/5
Dimension drawings 10/21

22 mm mounting diameter, metal



SIRIUS 3SB3, metal round

Page

Selection and ordering data

- 3SB36 complete units 10/26
- 3SB35 pushbuttons and lens assemblies with holder 10/31
- 3SB34 contact blocks and, lampholders 10/65
- 3SB3 accessories 10/79

Introduction 10/22
Technical specifications 10/24
Dimension drawings 10/100

22 mm mounting diameter, molded-plastic



SIRIUS 3SB3, plastic round

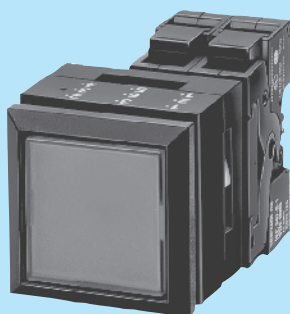
Page

Selection and ordering data

- 3SB32 complete units 10/41
- 3SB30 pushbuttons and lens assemblies with holder 10/48
- 3SB3 twin pushbuttons 10/54
- 3SB19, 36B39 accessories 10/54, 10/79
- 3SB34 contact blocks and lampholders 10/65

Introduction 10/22
Technical specifications 10/24
Dimension drawings 10/100

26 mm x 26 mm mounting cutout, molded-plastic



SIRIUS 3SB3, plastic square

Page

Selection and ordering data

- 3SB33 complete units 10/59
- 3SB31 pushbuttons and lens assemblies with holder 10/61
- 3SB34 contact blocks and lampholders 10/65
- 3SB19 accessories 10/79

Introduction 10/22
Technical specifications 10/24
Dimension drawings 10/100

Enclosed devices, 22 mm mounting diameter



SIRIUS 3SB3, plastic square

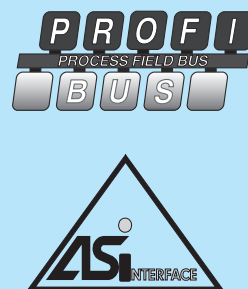
Page

Selection and ordering data

- 3SB38 enclosures with standard equipment 10/78
- 3SB34 contact blocks and lampholders 10/90
- 3SB38 empty enclosures 10/90
- 3SB38 enclosures with choice of equipment 10/91
- 3SB19 accessories, labels 10/95

Introduction 10/87
Dimension drawings 10/100

Communication-capable switching devices



SIRIUS 3SB3, plastic square

Page

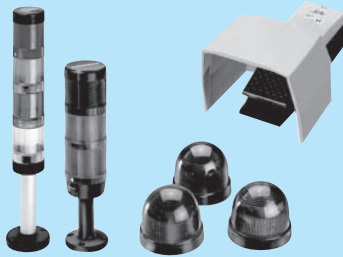
Selection and ordering data

- Assembled enclosures 10/97
- Field assembled components for enclosures 10/99

Control and Signaling Devices

Push Button Units and Indicator Lights

SIRIUS signal columns, built-in signal beacons and foot switches



3SE2, 3SE3 Foot Switches Page

Selection and ordering data

- Plastic and metal enclosures 10/109
- Lamp & LED version, enclosure diameters 50 and 70 mm**
- 8WD42 selection and accessories 10/113
- 8WD44 selection and accessories 10/115
- 8WD53 beacons 10/119

Introduction	10/110
Technical Specifications	10/112
Dimension drawings	10/120

Standard duty control stations



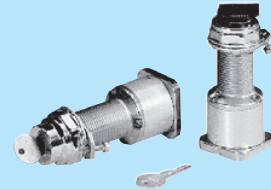
Class 50 Page

Selection and ordering data

- Standard duty Type 1 and 1B 10/124
- Heavy duty Type 4 10/129
- Class 50 accessories 10/130

Introduction	10/123
Technical Specifications	10/123
Dimension drawings	10/131

Type 7/9 hazardous location— 3/4"–14 NPSM



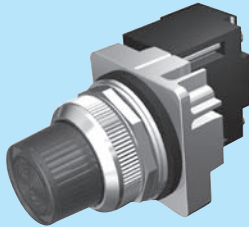
Class 51 Page

Selection and ordering data

- Push pull complete units 10/133
- Pilot lights 10/134
- Selector switches 10/136
- Push to test/illuminated push buttons 10/135
- Cam selection guide 10/138
- Stations and enclosures 10/139
- Accessories 10/140

Introduction	10/132
Technical Specifications	10/132

NEMA 30.5 mm mounting diameter, corrosion resistant, watertight & oiltight

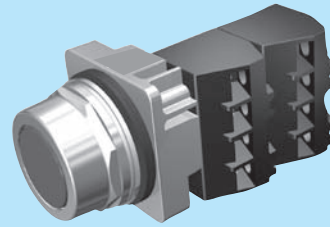


Class 52 Page

Selection and ordering data

- Momentary Push Button, Non-Illuminated 10/144-145
- 2 & 3 Position Push-Pull Mushroom Head Devices, Non-Illuminated 10/146-147
- 2 & 3 Position Push-Pull Mushroom Head Devices, Illuminated 10/148-149
- 2 Position Twist-to-Release Mushroom Head Devices, Non-Illuminated 10/150
- 2 Position Twist-to-Release Mushroom Head Devices, Illuminated 10/151
- Indicator Light 10/152-153

Introduction	10/143
Technical Specifications	10/178
Dimension drawings	10/169



Class 52 Page

Selection and ordering data

- Push Button & Push-to-Test, Illuminated 10/154-155
- Push Button Mushroom Head Devices, Illuminated 10/156
- Selector Switches, Illuminated 10/157
- Selector Switch Short & Long Lever, Non-Illuminated 10/158-159
- Keyed Selector Switch 10/160-161
- Selector Push Button 10/162

30.5 mm heavy duty control stations, Type 4/4X/12/13 enclosures



Class 52 Page

Selection and ordering data

- Class 52 assembled stations with standard offerings 10/173
- P30 enclosures only 10/175
- Custom station order form 10/175
- Legend plates 10/176

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

General data

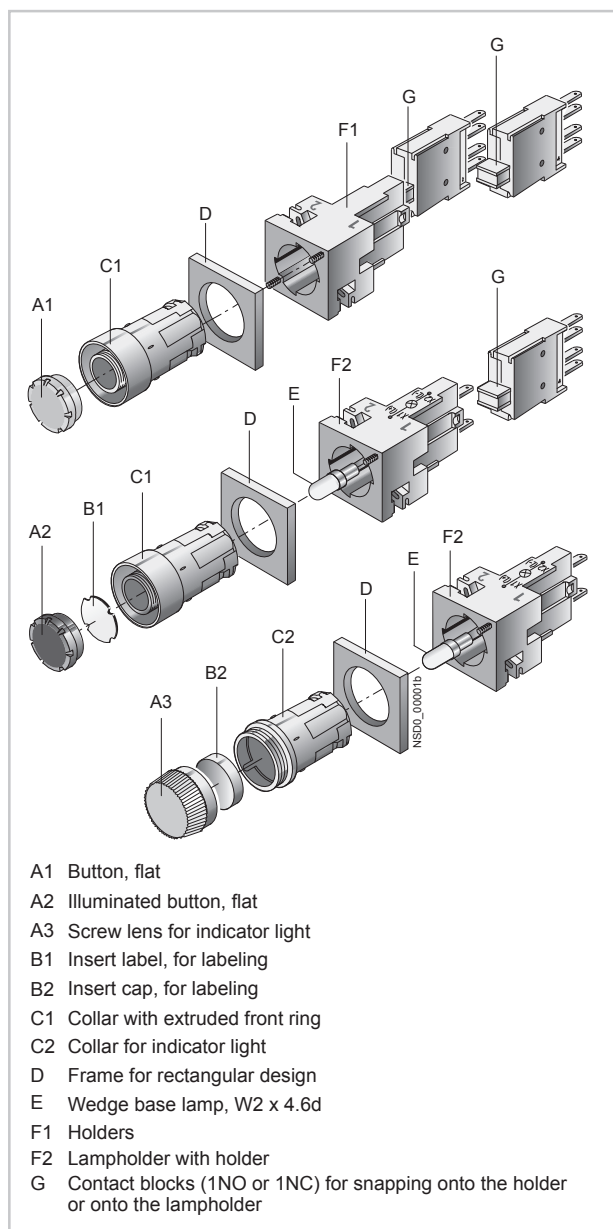
Overview

The 3SB2 push buttons and indicator lights are provided for front plate mounting and rear connection with flat connectors. For use on printed circuit boards, contact blocks and lamp holders with solder pins are also available.

Standards

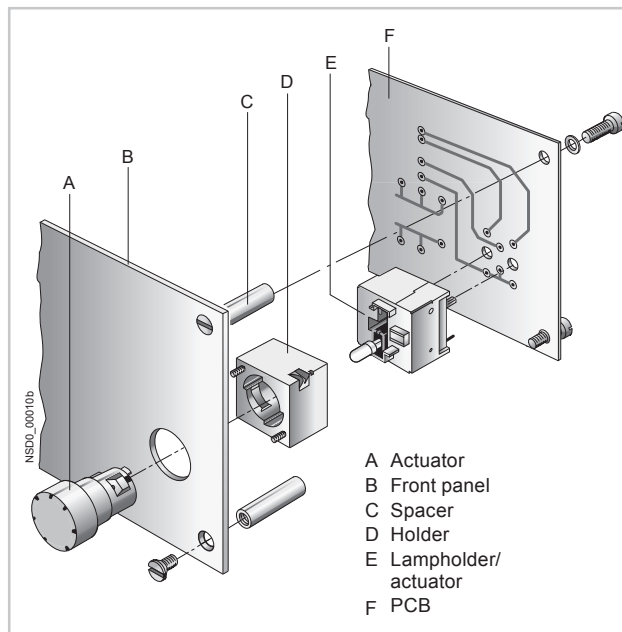
IEC 60947-1, EN 60947-1,
IEC 60947-5-1, EN 60947-5-1,
IEC 60947-5-5, EN 60947-5-5 for EMERGENCY-STOP mushroom push buttons.

Version with flat connector



For PCB mounting

For use on printed circuit boards, special contact blocks and lamp holders for soldering into the printed circuit board are available. For this purpose, the contact blocks and lamp holders are fitted with 0.8 mm x 0.8 mm solder pins of length 3.5 mm.



Connection methods



Flat connectors



Solder pin connections

The terminals are indicated in the corresponding tables by the symbols shown on blue backgrounds.

Application

The devices are climate-proof and suitable for marine applications.

Safety EMERGENCY-STOP push buttons according to ISO 13850

For controls according to IEC 60204-1 or EN 60204-1, the mushroom push buttons of the 3SB2 series are suitable for use as safety EMERGENCY-STOP push buttons.

Safety circuits

IEC 60947-5-1 and EN 60947-5-1 require positive opening, i.e. for the purposes of personal safety, the assured opening of NC contacts is expressly stipulated for the electrical equipment of machines in all safety circuits and marked according to IEC 60947-5-1 with the symbol ☞.

Category 4 according to EN 954-1 can be attained with the EMERGENCY-STOP mushroom push buttons if the corresponding failsafe evaluation units are selected and correctly installed, e.g. the 3TK28 safety relays or matching units from the ASIsafe, SIMATIC or SINUMERIK product ranges.

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

General data

1
2
3
4
5
6
7
8
9
10

Technical specifications

Type	3SB2	
Contact blocks and lamp holders		
Standards	IEC 60947-5-1, EN 60947-5-1 IEC 60947-5-5, EN 60947-5-5	
Rated insulation voltage U_i	V	250
Conventional thermal current I_{th}	A	10
Rated operational current I_e at rated operational voltage U_e		
• Alternating current AC-12 - At $U_e = 24 \dots 230$ V	A	10
• Alternating current AC-15 - At $U_e = 24 \dots 230$ V	A	4
• Direct current DC-12 - At $U_e = 24$ V	A	6
- At $U_e = 60$ V	A	5
- At $U_e = 110$ V	A	2.5
- At $U_e = 230$ V	A	1
• Direct current DC-13 - At $U_e = 24$ V	A	3
- At $U_e = 60$ V	A	1.5
- At $U_e = 110$ V	A	0.7
- At $U_e = 230$ V	A	0.3
Contact stability		
• Test voltage/test current	5 V/1 mA	
Lamps		
• Bases	Wedge base W2× 4.6 d	
• Rated voltage	V	6, 12, 24, 30, 48, 60
• Rated power, max.	W	1
Short-circuit protection weld-free according to IEC 60947-5-1		
• DIAZED fuse links, utilization category gG	10 A TDz, 16 A Dz	
• Miniature circuit breaker with C characteristic according to IEC 60898	10 A	
Electrical endurance		
• For utilization category AC-15 with 3RT10 15 to 3RT10 26 contactors	10 × 10 ⁶ operating cycles	
Mechanical endurance		
	10 × 10 ⁶ operating cycles	
Degree of protection acc. to IEC 60529		
• Connection of contact blocks and lamp holders behind the front panel	IP00	
• Contact chambers of the contact blocks behind the front panel	IP40	
Finger-safe according to IEC 61140 and BGV A3		
With voltages > 50 V AC or 120 V DC, insulation sleeves must be fitted to the unassigned tab connections.		
Data according to UL and CSA		
Rated voltage		
• Contact blocks	V	250 AC
• Indicator light (lamp with wedge base W2× 4.6 d)	V	60; 1 W
Uninterrupted current	A	5
Switching capacity	B 300, R 300	
Actuators and indicators		
Mechanical endurance		
• Push Buttons	10 × 10 ⁶ operating cycles	
• Actuators, rotary or maintained	3 × 10 ⁵ operating cycles	
• Illuminated push buttons	3 × 10 ⁶ operating cycles	
Climatic withstand capability		
Climate-proof; suitable for marine applications		
Ambient temperature		
• During operation, non-illuminated devices and complete with LED	°C	−25 ... +70
• During operation, devices with incandescent lamp	°C	−25 ... +60
• During storage, transport	°C	−40 ... +80
Degree of protection acc. to IEC 60529		
• Actuators and indicators	IP65	
• Actuators and indicators with protective cap	IP67	
Protective measures		
• For mounting in metal front plates and enclosures	The actuators and lens assemblies must not be included in the protective measures.	
• For fitting into enclosures with total insulation	The protective measure "Total insulation" is retained.	
Shock resistance acc. to IEC 60068-2-27		
• Shock amplitude	ms	≤ 50 g
• Shock duration		11
• Shock form		Half-sine

More technical information [see Reference manual "Commanding and Signaling Devices"](#).

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

General data

Configuration

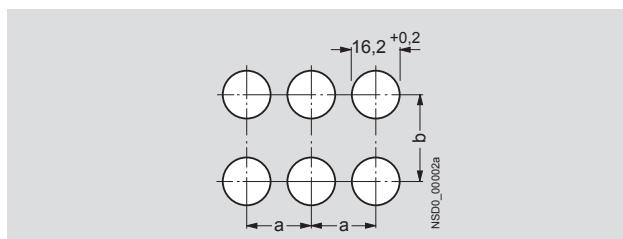
Design

Two design versions can be mounted:

- Round design: The 3SB2 push buttons and indicator lights are assembled with the modules – actuator, holder, contact block and lamp holder. Depending on the specific application, various versions can be assembled. Complete units are offered for the most commonly used applications.
- Square design: With square, black frames the round units can be given a square look. The frames are inserted underneath the round actuators. Further mounting is the same as for the round version.

Mounting and fixing:

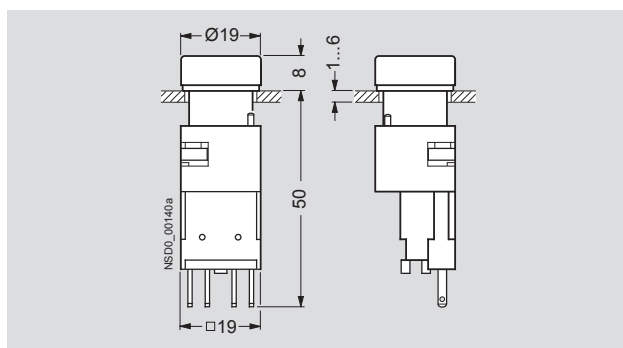
Mounting dimensions according to EN 50007
(not applicable to EMERGENCY-STOP mushroom push buttons)



Minimum clearance	a	b
Round version	19	19
Square version without inscription label	21	21
Round and square version with inscription label	21	32
For 2 selector switches with 3 switch positions, maintained, side by side	21	21

For mounting, the actuator or the lens assembly is inserted from the front into the hole in the front plate. Four small nubs ensure a secure fitting in the hole. The holder is plugged on from the back and snaps automatically into place. The module is fixed to the holder with 2 screws so that it is immune to vibrations.

One or two contact blocks can be mounted on the holder. They are inserted into the holder with slide slots and held down with two snap brackets.



Push button (flat) with holder and contact block

If a command point is fitted with an indicator light or illuminated push button, a lamp socket with lamp holder must be used instead of a holder. It is suitable for incandescent lamps or LEDs with bases of type W2 × 4.6d.

For PCB mounting

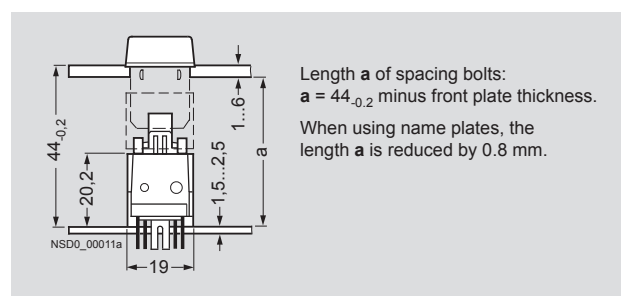
The command point comprises the actuator – e.g. 3SB2 push button, illuminated push button or indicator light –, which is mounted in the front plate, and a contact block and a lamp holder which are soldered to the PCB. For this purpose, the contact blocks and lamp holders are fitted with 0.8 mm × 0.8 mm solder pins of length 3.5 mm.

Mounting and fixing:

Mounting dimensions according to EN 50007.

The actuators are mounted in the same way as 3SB2 front plate mounting devices.

The contact blocks and lamp holders are plugged into the printed circuit board by means of their solder pins and can be flow-soldered. After soldering, the devices must be flush with the board and perpendicular to it. The printed circuit board must be supported on spacing bolts so that it cannot sag or bend more than 0.1 mm.

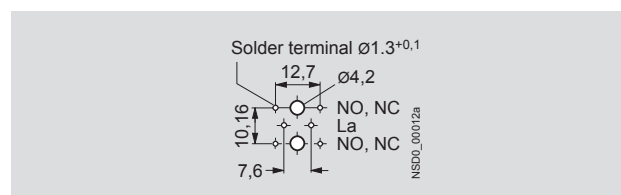


Illuminated push button with solder pin connection

To avoid bending the PCB when the control device is operated, sufficient spacing bolts must be provided as shown in the table below:

PCB thickness	Max. distance between spacing bolts
1.5 mm	80 mm
2.5 mm	150 mm
When using EMERGENCY-STOP push buttons	always 50 mm

These details are based on epoxy resin glass fiber mat.



Solder pin spacing

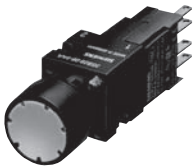
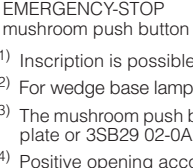
Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Complete units

1
2
3
4
5
6
7
8
9
10

Selection and ordering data

	Version	Contact blocks	DT	Color of handle	Flat connectors	PS
					Order No.	
 Pushbutton with flat button	Push buttons with flat button	1 NO		Black	3SB22 02-0AB01	1 unit
		1 NC		Black	3SB22 03-0AB01	1 unit
		1 NC		Red	3SB22 03-0AC01	1 unit
		1 NO		Yellow	3SB22 02-0AD01	1 unit
		1 NO		Green	3SB22 02-0AE01	1 unit
		1 NO		Blue	3SB22 02-0AF01	1 unit
		1 NO		White	3SB22 02-0AG01	1 unit
		1 NO		Clear ¹⁾	3SB22 02-0AH01	1 unit
		1 NC		Red	3SB22 07-0AC01	1 unit
		1 NO		Yellow ¹⁾	3SB22 06-0AD01	1 unit
 Illuminated push button with raised button	Illuminated push buttons with flat button Lamp holder W2 x 4.6 d ²⁾	1 NO		Green	3SB22 06-0AE01	1 unit
		1 NO		Blue	3SB22 06-0AF01	1 unit
		1 NO		Clear ¹⁾	3SB22 06-0AH01	1 unit
		1 NC		Red	3SB22 27-0AC01	1 unit
		1 NO		Yellow ¹⁾	3SB22 26-0AD01	1 unit
		1 NO		Green	3SB22 26-0AE01	1 unit
		1 NO		Blue	3SB22 26-0AF01	1 unit
		1 NO		Clear ¹⁾	3SB22 26-0AH01	1 unit
		1 NO		Black	3SB22 02-0LB01	1 unit
		1 NC		Red	3SB22 03-0LC01	1 unit
 EMERGENCY-STOP mushroom push button	Push buttons with raised button	1 NO		Yellow	3SB22 02-0LD01	1 unit
		1 NO		Blue	3SB22 02-0LF01	1 unit
		1 NO		Clear ¹⁾	3SB22 02-0LH01	1 unit
		1 NC		Red	3SB22 07-0LC01	1 unit
		1 NO		Yellow ¹⁾	3SB22 06-0LD01	1 unit
		1 NO		Green	3SB22 06-0LE01	1 unit
		1 NO		Blue	3SB22 06-0LF01	1 unit
		1 NO		Clear ¹⁾	3SB22 06-0LH01	1 unit
		1 NC		Red	3SB22 27-0LC01	1 unit
		1 NO		Yellow ¹⁾	3SB22 26-0LD01	1 unit
	Illuminated push buttons with raised button Lamp holder W2 x 4.6 d with incandescent lamp 24 V	1 NO		Green	3SB22 26-0LE01	1 unit
		1 NO		Blue	3SB22 26-0LF01	1 unit
		1 NO		Clear ¹⁾	3SB22 26-0LH01	1 unit
		1 NC		Red	3SB22 03-1AC01	1 unit
		1 NO		Yellow ¹⁾	3SB22 26-0LD01	1 unit
		1 NO		Green	3SB22 26-0LE01	1 unit
		1 NO		Blue	3SB22 26-0LF01	1 unit
		1 NO		Clear ¹⁾	3SB22 26-0LH01	1 unit
		1 NC		Red	3SB22 03-1AC01	1 unit
		1 NO		Yellow ¹⁾	3SB22 26-0LD01	1 unit

¹⁾ Inscription is possible by inserting a label.

²⁾ For wedge base lamps see "Accessories", page 10/18.

³⁾ The mushroom push button cannot be combined with 3SB29 02-0AB name plate or 3SB29 02-0AA single frame.

⁴⁾ Positive opening according to IEC 60947-5-1, Appendix K.

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Complete units

	Version	Contact blocks	Color of handle	DT	Flat connectors	PS
					Order No.	
 Selector switch	Selector switches, 2 switch positions Switching sequence O-I, 62° operating angle, maintained 	1 NO	Black		3SB22 02-2AB01	1 unit
		1 NO	Red		3SB22 02-2AC01	1 unit
		1 NO	Green		3SB22 02-2AE01	1 unit
		1 NO	White		3SB22 02-2AG01	1 unit
	Selector switches, 3 switch positions Switching sequence I-O-II, 2 × 62° operating angle, maintained 	1 NO, 1 NO	Black		3SB22 10-2DB01	1 unit
		1 NO, 1 NO	Red		3SB22 10-2DC01	1 unit
		1 NO, 1 NO	Green		3SB22 10-2DE01	1 unit
		1 NO, 1 NO	White		3SB22 10-2DG01	1 unit
	Selector switches, 3 switch positions Switching sequence I-O-II, 2 × 50° operating angle, momentary, Spring return from left and right 	1 NO, 1 NO	Black		3SB22 10-2EB01	1 unit
		1 NO, 1 NO	Red		3SB22 10-2EC01	1 unit
		1 NO, 1 NO	Green		3SB22 10-2EE01	1 unit
		1 NO, 1 NO	White		3SB22 10-2EG01	1 unit

	Version	Contact blocks	Lock No.	Key removal position	DT	Flat connectors	PS
						Order No.	
 CES key-operated switch	CES key-operated switches, 2 switch positions Switching sequence O-I, 62° operating angle, maintained 	1 NO	SB2	O		3SB22 02-4LA01	1 unit
		1 NO	SB2	O + I		3SB22 02-4LB01	1 unit
	CES key-operated switches, 3 switch positions Switching sequence I-O-II, 2 × 62° operating angle, maintained 	1 NO, 1 NO	SB2	O		3SB22 10-4PA01	1 unit
		1 NO, 1 NO	SB2	I + O + II		3SB22 10-4PB01	1 unit
	CES key-operated switches, 3 switch positions Switching sequence I-O-II, 2 × 50° operating angle, momentary, Spring return from left and right 	1 NO, 1 NO	SB2	O		3SB22 10-4QA01	1 unit

	Version	Color of screw lens	DT	Flat connectors	PS
				Order No.	
 Indicator light	Indicator lights Lamp holder W2 x 4.6 d without lamp ¹⁾	Red		3SB22 04-6BC06	1 unit
		Yellow		3SB22 04-6BD06	1 unit
		Green		3SB22 04-6BE06	1 unit
		White		3SB22 04-6BG06	1 unit
		Clear		3SB22 04-6BH06	1 unit
	Indicator lights Lamp holder W2 x 4.6 d with incandescent lamp 24 V	Red		3SB22 24-6BC06	1 unit
		Yellow		3SB22 24-6BD06	1 unit
		Green		3SB22 24-6BE06	1 unit
		White		3SB22 24-6BG06	1 unit
		Clear		3SB22 24-6BH06	1 unit

¹⁾ For wedge base lamps see "Accessories", page 10/18.

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Actuators and indicators

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Selection and ordering data

Version	Color of handle	DT	Order No.	PS
Push buttons				
	Push buttons with flat button	Black	3SB20 00-0AB01	1 unit
		Red	3SB20 00-0AC01	1 unit
		Yellow	3SB20 00-0AD01	1 unit
		Green	3SB20 00-0AE01	1 unit
		Blue	3SB20 00-0AF01	1 unit
		White	3SB20 00-0AG01	1 unit
		Clear ¹⁾	3SB20 00-0AH01	1 unit
	Illuminated push buttons with flat button	Red	3SB20 01-0AC01	1 unit
		Yellow ¹⁾	3SB20 01-0AD01	1 unit
		Green	3SB20 01-0AE01	1 unit
		Blue	3SB20 01-0AF01	1 unit
		White	3SB20 00-0AG01	1 unit
		Clear ¹⁾	3SB20 00-0AH01	1 unit
	Push buttons with raised button	Black	3SB20 00-0LB01	1 unit
		Red	3SB20 00-0LC01	1 unit
		Yellow	3SB20 00-0LD01	1 unit
		Blue	3SB20 00-0LF01	1 unit
		White	3SB20 00-0LG01	1 unit
		Clear ¹⁾	3SB20 00-0LH01	1 unit
	Illuminated push buttons with raised button	Red	3SB20 01-0LC01	1 unit
		Yellow ¹⁾	3SB20 01-0LD01	1 unit
		Green	3SB20 01-0LE01	1 unit
		Blue	3SB20 01-0LF01	1 unit
		Clear ¹⁾	3SB20 00-0LH01	1 unit
	EMERGENCY-STOP mushroom push buttons acc. to ISO 13850, maintained²⁾	Red	3SB20 00-1AC01	1 unit
	Latches automatically when pressed; unlatches by turning the mushroom head anticlockwise			

¹⁾ Inscription is possible by inserting a label.

²⁾ The mushroom push button cannot be combined with 3SB29 02-0AB name plate or 3SB29 02-0AA single frame.

Version	Color of handle	DT	Order No.	PS	
Selector switches					
 Selector switch	Selector switches with 2 switch positions Switching sequence O-I, 62° operating angle, maintained		Black Red Green White	3SB20 00-2AB01 3SB20 00-2AC01 3SB20 00-2AE01 3SB20 00-2AG01	1 unit 1 unit 1 unit 1 unit
	Selector switches with 2 switch positions Switching sequence O-I, 50° operating angle, momentary, spring return from right		Black Red Green	3SB20 00-2BB01 3SB20 00-2BC01 3SB20 00-2BE01	1 unit 1 unit 1 unit
	Selector switches with 2 switch positions Switching sequence O-I, 90° operating angle, maintained		Black Red Green White	3SB20 00-2HB01 3SB20 00-2HC01 3SB20 00-2HE01 3SB20 00-2HG01	1 unit 1 unit 1 unit 1 unit
	Selector switches with 3 switch positions Switching sequence I-O-II, 2 x 62° operating angle, maintained		Black Red Green White	3SB20 00-2DB01 3SB20 00-2DC01 3SB20 00-2DE01 3SB20 00-2DG01	1 unit 1 unit 1 unit 1 unit
	Selector switches with 3 switch positions Switching sequence I-O-II, 2 x 50° operating angle, momentary, spring return from left and right		Black Red Green White	3SB20 00-2EB01 3SB20 00-2EC01 3SB20 00-2EE01 3SB20 00-2EG01	1 unit 1 unit 1 unit 1 unit
	Selector switches with 3 switch positions Switching sequence I-O-II, 2 x 90° operating angle, maintained		Black	3SB20 00-2JB01	1 unit

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Actuators and indicators

Key-operated switches



CES key-operated switch

Version	Lock No.	Key removal position	DT	Order No.	PS
Key-operated switches					
CES key-operated switches with 2 keys, 2 switch positions Switching sequence O-I, 62° operating angle, maintained		SB2	O+I O	3SB20 00-4LB01 3SB20 00-4LA01	1 unit 1 unit
CES key-operated switches with 2 keys, 2 switch positions Switching sequence O-I, 50° operating angle, momentary, spring return from right		SB2	O	3SB20 00-4MA01	1 unit
CES key-operated switches with 2 keys, 3 switch positions Switching sequence I-O-II, 2 x 62° operating angle, maintained		SB2	I+O+II O	3SB20 00-4PB01 3SB20 00-4PA01	1 unit 1 unit
CES key-operated switches with 2 keys, 3 switch positions Switching sequence I-O-II, 2 x 50° operating angle, momentary, spring return from left and right		SB2	O	3SB20 00-4QA01	1 unit

Indicator lights



Indicator light

Version	Color of screw lens	DT	Order No.	PS
Indicator lights with concentric rings (inscription by inserting a cap is not possible)				
	Red		3SB20 01-6BC06	1 unit
	Yellow		3SB20 01-6BD06	1 unit
	Green		3SB20 01-6BE06	1 unit
	Blue		3SB20 01-6BF06	1 unit
	White		3SB20 01-6BG06	1 unit
	Clear		3SB20 01-6BH06	1 unit
Indicator lights, smooth for inscription by inserting a cap ¹⁾				
	Red		3SB20 01-6CC06	1 unit
	Yellow		3SB20 01-6CD06	1 unit
	Green		3SB20 01-6CE06	1 unit
	Blue		3SB20 01-6CF06	1 unit
	Clear		3SB20 01-6CH06	1 unit

¹⁾ Insert caps, see "Accessories", page 10/15

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Contact blocks and lampholders

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Selection and ordering data

Version	Diagram	Operating travel	DT	Flat connectors	PS
		 Contact closed  Contact open			
				Order No.	

Contact blocks and lamp holders with flat connectors 2 x 2.8 – 0.8 mm according to IEC 60760

Holders for fixing the actuator and the contact blocks

Holders for 2 contact blocks
Inscription with identification number 1-2



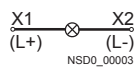
Holder

3SB29 08-0AA 5 units

Lamp holders with holder for fixing the actuator and the contact blocks

Lamp holders

W2 x 4.6 d
without lamp

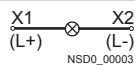


3SB23 04-2A 1 unit

Lamp holders

W2 x 4.6 d

- With 6 V incandescent lamp
- With 24 V incandescent lamp



3SB23 04-2F 1 unit

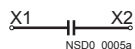
3SB23 04-2H 1 unit



Lamp holder

Voltage reducers¹⁾

For connecting the 3SB29 08-1AE lamp (48 V) to 230 V AC



3SB24 04-3D 1 unit

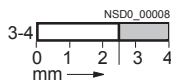


Voltage reducer

Contact blocks for fixing in the holder or lamp holder

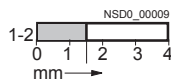
Contact blocks with one contact²⁾

1 NO



3SB24 04-0B 1 unit

1 NC $\rightarrow$ ³⁾



3SB24 04-0C 1 unit



Contact block

¹⁾ Use fixpoint terminal according to IEC 60439-1.

²⁾ For plug-in and insulation sleeves see "Accessories", page 10/19.

³⁾ Positive opening according to IEC 60947-5-1, Appendix K.

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Contact blocks and lamp holders

Version	Diagram	Operating travel	DT	Solder pin connections	PS
		 Contact closed  Contact open			

Order No.

Contact blocks and lamp holders with solder pins



Holders for contact block with solder pins
For fixing the actuators in the front panel

Lamp holders
Wedge base W2 x 4.6 d¹⁾



3SB29 08-0AB 5 units

3SB24 55-2A 1 unit

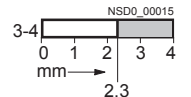
Holder



Contact block with solder pins

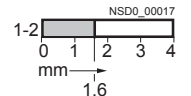
Contact blocks

1 NO



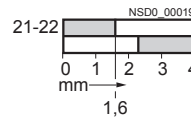
3SB24 55-0B 1 unit

1 NC



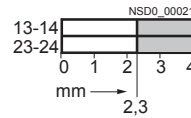
3SB24 55-0C 1 unit

1 NO + 1 NC



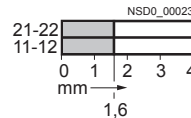
3SB24 55-0J 1 unit

1 NO + 1 NO



3SB24 55-0E 1 unit

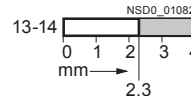
1 NC + 1 NC



3SB24 55-0F 1 unit

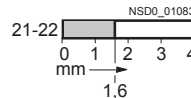
Contact blocks and lamp holders, wedge base W2 x 4.6 d¹⁾

1 NO



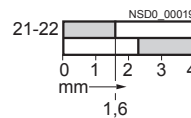
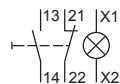
3SB24 55-1B 1 unit

1 NC



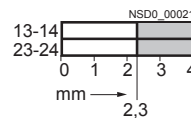
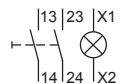
3SB24 55-1C 1 unit

1 NO + 1 NC



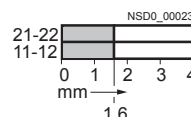
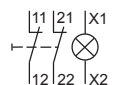
3SB24 55-1J 1 unit

1 NO + 1 NO



3SB24 55-1E 1 unit

1 NC + 1 NC



3SB24 55-1F 1 unit

¹⁾ The lamp is not included in the scope of supply.

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Insert labels and insert caps

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Overview

Clear push buttons, illuminated push buttons and indicator lights can be fitted with insert labels and caps for identification purposes.

The insert labels and insert caps are made of a milky-transparent plastic with black lettering; they can be fitted in any 90° angle.

Inscriptions

The inscriptions have upper case initial letters. Graphic symbols, including those not listed in the catalog, are according to ISO 7000 or IEC 60417.

For customized inscriptions see "Options".

Selection and ordering data

Inscription/Symbol	Symbol No.	DT	Insert labels For push buttons and illuminated push buttons, flat Order No.	PS
For self-inscription				
 Blank			3SB29 01-4AA	10 units
With inscription				
 On			3SB29 01-4EB	10 units
Start			3SB29 01-4EK	10 units
Stop			3SB29 01-4EL	10 units
Reset			3SB29 01-4EM	10 units
Test			3SB29 01-4EN	10 units
0			3SB29 01-4RA	10 units
1			3SB29 01-4RB	10 units
2			3SB29 01-4RC	10 units
3			3SB29 01-4RD	10 units
4			3SB29 01-4RE	10 units
5			3SB29 01-4RF	10 units
6			3SB29 01-4RG	10 units
7			3SB29 01-4RH	10 units
8			3SB29 01-4RJ	10 units
9			3SB29 01-4RK	10 units
Graphic ON/OFF symbols				
 O (Off)	 5008 IEC		3SB29 01-4MB	10 units
I (On)	 5007 IEC		3SB29 01-4MC	10 units
II (On)	 --		3SB29 01-4MD	10 units

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Insert labels and insert caps

Inscription/Symbol	Symbol No.	DT	Insert labels For push buttons and illuminated push buttons, flat Order No.	PS
Graphic equipment symbols				
 Electric motor	 0011 ISO		3SB29 01-4PA	10 units
Horn	 5014 IEC		3SB29 01-4PB	10 units
Pump	 0134 ISO		3SB29 01-4PD	10 units
Coolant pump	 0355 ISO		3SB29 01-4PE	10 units
Graphic motion symbols				
 Motion in direction of arrow (straight)	 5022 IEC		3SB29 01-4NA	10 units
Motion in direction of arrow (diagonal)	 --		3SB29 01-4NB	10 units
Clockwise rotation	 0004 ISO		3SB29 01-4NC	10 units
Anticlockwise rotation	 --		3SB29 01-4ND	10 units
Fast motion	 0266 ISO		3SB29 01-4NE	10 units
Increase (plus)	 5005 IEC		3SB29 01-4NG	10 units
Decrease (minus)	 5006 IEC		3SB29 01-4MC	10 units
Graphic control symbols				
 Clamp	 --		3SB29 01-4QB	10 units
Release	 --		3SB29 01-4QC	10 units
Brake off	 0021 ISO		3SB29 01-4QE	10 units
Lock	 0022 ISO		3SB29 01-4QF	10 units
Unlock	 0023 ISO		3SB29 01-4QG	10 units
On/Off, momentary contact	 5011 IEC		3SB29 01-4QJ	10 units
Manual operation	 0096 ISO		3SB29 01-4QK	10 units
Automatic sequence	 0017 ISO		3SB29 01-4QL	10 units
Customized inscriptions				
 Any inscription 1 line of text with up to 6 characters of 3 mm in height. Please add the appropriate order code to the Order No. and specify the line of text required.			3SB29 01-4AZ K0Y K1Y or K2Y K5Y	1 unit 1 unit 1 unit
Other graphic symbols Please add the order code "K3Y" to the Order No. and specify the serial number and the applied standard (ISO 7000 or IEC 60417).			3SB29 01-4AZ K3Y	1 unit
Any inscription or symbol Please add the order code "K9Y" to the Order No. and specify the inscription or the symbol required.			3SB29 01-4AZ K9Y	1 unit

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Insert labels and insert caps

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Inscription/Symbol	Symbol No.	DT	Insert caps For push buttons and illuminated push buttons, raised Order No.	PS
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For self-inscription

	Blank		3SB29 01-5AA	10 units
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With inscription

	On		3SB29 01-5EB	10 units
	0		3SB29 01-5RA	10 units
	1		3SB29 01-5RB	10 units
	2		3SB29 01-5RC	10 units
	3		3SB29 01-5RD	10 units
	4		3SB29 01-5RE	10 units
	5		3SB29 01-5RF	10 units
	6		3SB29 01-5RG	10 units
	7		3SB29 01-5RH	10 units
	8		3SB29 01-5RJ	10 units
	9		3SB29 01-5RK	10 units

Graphic ON/OFF symbols

	O (Off)		5008 IEC	3SB29 01-5MB	10 units
	I (On)		5007 IEC	3SB29 01-5MC	10 units
	II (On)		--	3SB29 01-5MD	10 units

Graphic motion symbols

	Motion in direction of arrow		5022 IEC	3SB29 01-5NA	10 units
	Motion in direction of arrow		--	3SB29 01-5NB	10 units
	Increase (plus)		5005 IEC	3SB29 01-5NG	10 units
	Decrease (minus)		5006 IEC	3SB29 01-5MC	10 units

Graphic control symbols

	Clamp		--	3SB29 01-5QB	10 units
	Release		--	3SB29 01-5QC	10 units

Customized inscriptions

	Any inscription 1 line of text with up to 6 characters of 3 mm in height. Please add the appropriate order code to the Order No. and specify the line of text required.			3SB29 01-5AZ K0Y K1Y or K2Y K5Y	1 unit 1 unit 1 unit
	Other graphic symbols Please add the order code " K3Y " to the Order No. and specify the serial number and the applied standard (ISO 7000 or IEC 60417).			3SB29 01-5AZ K3Y	1 unit
	Any inscription or symbol Please add the order code " K9Y " to the Order No. and specify the inscription or the symbol required.			3SB29 01-5AZ K9Y	1 unit

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Insert labels and insert caps

Inscription/Symbol	Symbol No.	DT	Insert caps For indicator lights Order No.	PS
For self-inscription				
 Blank			3SB29 01-7AA	10 units
Graphic symbols				
 Pump	 0134 ISO		3SB29 01-7PD	10 units
 Manual operation	 0096 ISO		3SB29 01-7QK	10 units
Customized inscriptions				
	Any inscription 1 line of text with up to 6 characters of 3 mm in height. Please add the appropriate order code to the Order No. and specify the line of text required.		3SB29 01-7AZ K0Y K1Y or K2Y K5Y	1 unit 1 unit 1 unit
	Other graphic symbols Please add the order code " K3Y " to the Order No. and specify the serial number and the applied standard (ISO 7000 or IEC 60417).		3SB29 01-7AZ K3Y	1 unit
	Any inscription or symbol Please add the order code " K9Y " to the Order No. and specify the inscription or the symbol required.		3SB29 01-7AZ K9Y	1 unit

Options

Customized inscriptions

Labels and caps can be inscribed with text and symbols not listed in the ordering data. Append the following codes to the Order No.:

- Text line in upper/lower case, always upper case for beginning of line (e.g. "Lift"): **K0Y**
- Text line in upper case (e.g. "LIFT"): **K1Y**
- Text line in lower case (e.g. "lift"): **K2Y**
- Text line in upper/lower case, all words begin with upper case letters (e.g. "Lift"): **K5Y**
- Symbol with number according to ISO 7000 or IEC 60417: **K3Y**
- Any inscription or symbols according to order form supplement: **K9Y**

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

One line with up to 6 characters with 3 mm letter height is possible for the inscription ([see ordering example 1](#)).

Symbols can also be ordered with numbers according to ISO 7000 or IEC 60417 ([see ordering examples 2 and 3](#)).

For special symbols (order code K9Y), a CAD drawing in DXF format can be submitted.

Ordering example 1

3SB29 01-4AZ
K1Y
Z = pump

Ordering example 2

3SB29 01-4AZ
K3Y
Z = 5008 IEC

Ordering example 3

3SB29 01-4AZ
K3Y
Z = 1118 ISO

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Name plates

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Overview

The name plates consist of a black plastic label holder and an inscription label (silver with black print) for sticking in place.

Note mounting dimensions!

Inscriptions

The inscriptions (also special inscriptions) are lower case with upper case initial letters. Graphic symbols, including those not listed in the catalog, are according to ISO 7000 or IEC 60417.

Selection and ordering data

Inscription/Symbol	Symbol No.	DT	Order No.	PS
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Inscription labels, self-adhesive, 9.5 mm x 18.5 mm

	Blank			3SB29 01-2AA	10 units
	On			3SB29 01-2EB	10 units
	Off			3SB29 01-2EC	10 units
	Start			3SB29 01-2EL	10 units
	Reset			3SB29 01-2EM	10 units
	Fault			3SB29 01-2EW	10 units
	Hand Auto			3SB29 01-2BA	10 units
	Manual 0 Auto			3SB29 01-2BE	10 units
	Man 0 Auto			3SB29 01-2ET	10 units
Graphic symbols					
	O (Off)		5008 IEC	3SB29 01-2MB	1 unit
	I (On)		5007 IEC	3SB29 01-2MC	1 unit
	O I (horizontal)		--	3SB29 01-2MF	1 unit
	Motion in direction of arrow		5002 IEC	3SB29 01-2NA	1 unit
Customized inscriptions or symbols					
	(see Options)			3SB29 01-2XZ	
				K0Y	1 unit
				K1Y, K2Y or K3Y	1 unit
				K5Y	1 unit
				K9Y	1 unit

Label holders

	Label holders for inscription labels The label holders must not be used with the 3SB2...-1AC01 EMERGENCY-STOP mushroom push button.	3SB29 02-0AB	1 unit
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Options

Customized inscriptions

The labels can be inscribed with text and symbols not listed in the ordering data. Append the following codes to the Order No.:

- Text line(s) in upper/lower case, upper case always for beginning of line (e.g. "Lift off"): **K0Y**
- Text line(s) in upper case (e.g. "LIFT OFF"): **K1Y**
- Text line(s) in lower case (e.g. "lift off"): **K2Y**
- Text line(s) in upper/lower case, all words begin with upper case letters (e.g. "Lift Off"): **K5Y**
- Symbol with number according to ISO 7000 or IEC 60417: **K3Y**
- Any inscription or symbols according to order form supplement: **K9Y**

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

Two lines of 11 characters are permitted with 4 mm letter height (1 line) or 3 mm (2-line).

Symbols can also be ordered with numbers according to ISO 7000 or IEC 60417 (see ordering example).

For special symbols (order code K9Y), a CAD drawing in DXF format can be submitted.

Ordering example

3SB29 01-2XZ
K3Y
Z = 1118 ISO

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Mounting parts and components

Selection and ordering data

Version	Lamp voltage	Color	DT	Order No.	PS
V					
Buttons and lenses ¹⁾					
	Buttons, flat For push buttons	Black		3SB29 10-0AB	1 unit
3SB29 10-0AF		Red		3SB29 10-0AC	1 unit
		Yellow		3SB29 10-0AD	1 unit
		Green		3SB29 10-0AE	1 unit
		Blue		3SB29 10-0AF	1 unit
		White		3SB29 10-0AG	1 unit
		Clear		3SB29 10-0AH	1 unit
	Buttons, flat For illuminated push buttons	Red		3SB29 10-0CC	1 unit
3SB29 10-0CF		Yellow		3SB29 10-0CD	1 unit
		Green		3SB29 10-0CE	1 unit
		Blue		3SB29 10-0CF	1 unit
		White		3SB29 10-0AG	1 unit
		Clear		3SB29 10-0AH	1 unit
			Buttons, raised For push buttons	Black	
3SB29 10-0BD	Red			3SB29 10-0BC	1 unit
	Yellow			3SB29 10-0BD	1 unit
	Clear			3SB29 10-0BH	1 unit
	Buttons, raised For illuminated push buttons	Red		3SB29 10-0DC	1 unit
3SB29 10-0DD		Yellow		3SB29 10-0DD	1 unit
		Clear		3SB29 10-0BH	1 unit
	Screw lenses With concentric rings	Red		3SB29 10-1AC	1 unit
3SB29 10-1AD		Yellow		3SB29 10-1AD	1 unit
		Green		3SB29 10-1AE	1 unit
		Blue		3SB29 10-1AF	1 unit
		White		3SB29 10-1AG	1 unit
		Clear		3SB29 10-1AH	1 unit
	Screw lenses Smooth, for inscription with insert cap	Red		3SB29 10-1BC	1 unit
3SB29 10-1BE		Yellow		3SB29 10-1BD	1 unit
		Green		3SB29 10-1BE	1 unit
		Blue		3SB29 10-1BF	1 unit
		Clear		3SB29 10-1BH	1 unit
Key for actuators					
	Keys For CES key-operated switch, lock No. SB2			3SB29 08-2AJ	1 unit
3SB29 08-2AJ					
Lamps, wedge bases ²⁾					
	Incandescent lamps Wedge base W2 × 4.6 d, 1.0 W	AC/DC	Clear		
3SB29 08-1AE		6		3SB29 08-1AA	1 unit
		12		3SB29 08-1AB	1 unit
		24		3SB29 08-1AC	1 unit
		30		3SB29 08-1AD	1 unit
		48		3SB29 08-1AE	1 unit
		60		3SB29 08-1AF	1 unit
	LED lamps, super-bright Wedge base W2 × 4.6 d	24 AC/DC	Red	3SB39 01-1SB	1 unit
3SB39 01-1SB			Yellow	3SB39 01-1RB	1 unit
			Green	3SB39 01-1TB	1 unit
			White	3SB39 01-1UB	1 unit
			Blue	3SB29 08-1BD	1 unit
		28 AC/DC	Red	3SB39 01-1SE	1 unit
3SB29 08-1BD			Yellow	3SB39 01-1RE	1 unit
			Green	3SB39 01-1TE	1 unit
			White	3SB39 01-1UE	1 unit
			Blue	3SB39 01-1VE	1 unit
	Lamp extractors For lamps with bases W2 × 4.6 d			3SB29 08-2AB	1 unit
3SB29 08-1AB					

¹⁾ Included in the scope of supply of actuators or indicator lights.

²⁾ Included in the scope of supply of some complete units.

Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Mounting parts and components

1

2

3

4

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9

10

Version	DT	Order No.	PS
Accessories for command points			
	Single frames for square design ¹⁾	3SB29 02-0AA	1 unit
	Name plates, yellow, Ø 50 mm As backing plate for EMERGENCY-STOP, self-adhesive • Blank • With German inscription "NOT-HALT" • With German inscription "NOT-AUS"	3SB29 08-2AF 3SB29 08-2AG 3SB29 08-2AK	1 unit 1 unit 1 unit
	Blanking plugs Black plastic (degree of protection IP65)	3SB29 08-3AA	1 unit
	Protective caps, clear Silicone, for push buttons with flat and raised button	3SB29 08-3AB	1 unit
Flat connectors			
	Plug-in sleeves For flat connectors 2.8 × 0.8 mm, cross-section 0.5 ... 1.5 mm ²	3SB29 08-8AA	1 unit
	Insulation sleeves For flat connectors, connection from the front	3SB29 08-8AB	1 unit
	Complete connectors²⁾ For connecting contact blocks and lamp holders (up to 10 connections). Guaranteed finger-safe acc. to IEC 61140 and BGV A3.	3SB29 08-8AD	1 unit
	Plug-in sleeves For flat connectors 2.8 × 0.8 mm, with locating spring for maintained in complete connector	3SB29 08-8AE	250 units
Tools			
	Dismantling tools For holders and lamp holders with holder	3SB29 08-2AA	1 unit
	Mounting tools For buttons and screw lenses	3SB29 08-2AC	1 unit

¹⁾ Not suitable for EMERGENCY-STOP mushroom push buttons.

²⁾ Required 3SB29 08-8AE plug-in sleeves for flat connectors 2.8 × 0.8 mm are not included in the scope of supply.

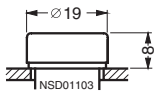
Push Button Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

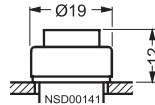
Dimension drawings (mm)

Actuators

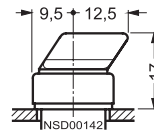
Pushbutton or illuminated pushbutton with flat button



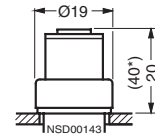
Pushbutton or illuminated pushbutton with raised button



Selector switch

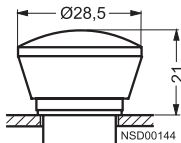


CES key-operated switch

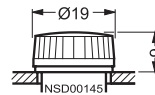


* with key

EMERGENCY-STOP mushroom pushbutton

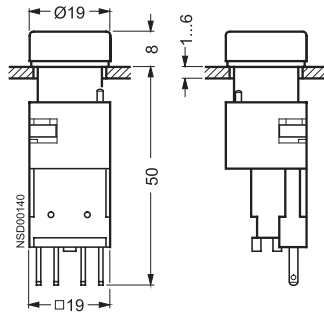


Indicator light



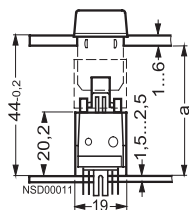
Contact blocks with push-on connection

Pushbutton and contact block with holder for frontplate mounting



Contact blocks with soldering pins for use on printed circuit boards

Illuminated pushbutton unit with contact block and lamp-holder with solder pins



Length **a** of spacers: **a** = 44-0.2 minus front plate thickness.
When using backing plates, the length **a** is reduced by 0.8 mm.
To avoid bending of the PCB when the actuator is operated, sufficient spacers must be provided spaced as shown in the table below:

Maximum PCB thickness	Max. distance between spacers
1.5 mm	80 mm
2.5 mm	150 mm
When using EMERGENCY-STOP actuators	generally 50 mm

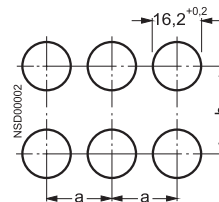
(These details are based on epoxy resin glass fibre mat.)

Solder pin spacing

Solder terminal $\varnothing 1.3^{+0.1}$



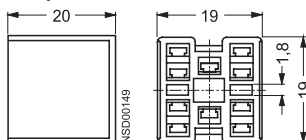
Mounting dimensions



Minimum clearance	a	b
Round design	19	19
Square design without inscription plate	21	21
Round and square designs with 21 inscription plates		32
For 2 selector switches and 3 switching positions, maintained contact, side by side	21	21

Accessories

Complete connector



Push Button Units and Indicator Lights

3SB3 Push Buttons and Indicator Lights, 22 mm

General data

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2

3

4

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7

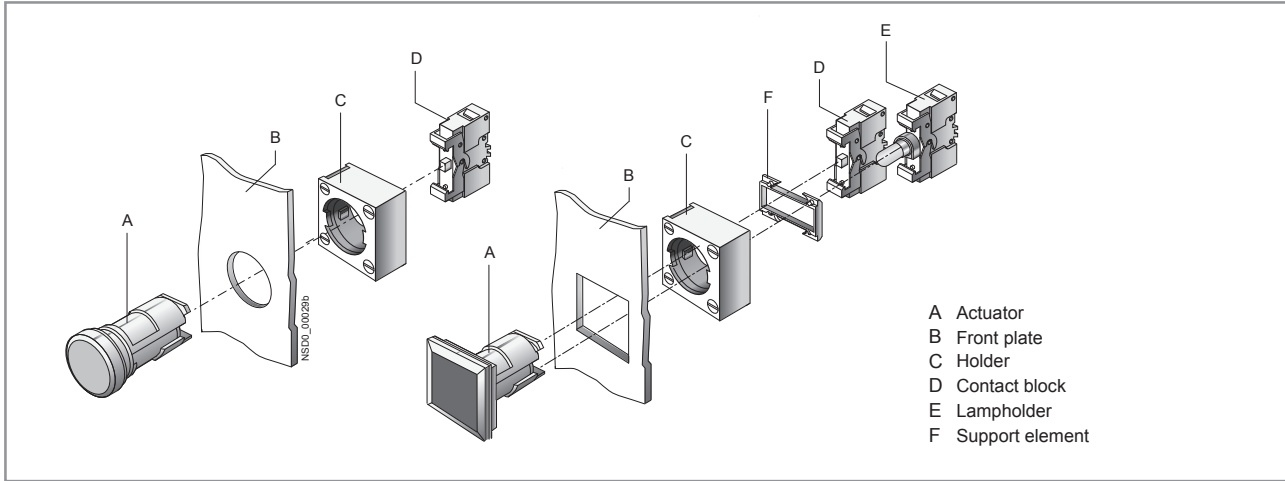
8

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Overview

Front plate mounting

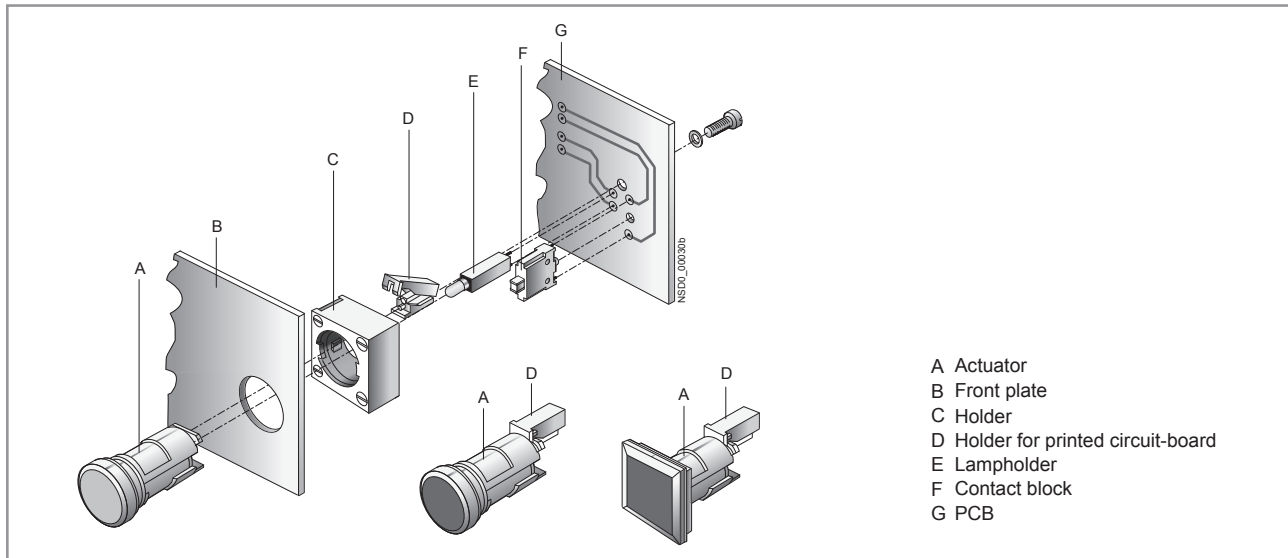


For actuators [see page 10/26 to 10/64](#).

For contact blocks and lamp holders [see page 10/65 to 10/67](#).

For holders [see page 10/68](#).

Mounting on printed circuit boards



For contact blocks for use on printed circuit boards [see page 10/68](#).

Contact assignment

For one contact block with 2 contacts, e.g. 1 NO + 1 NC

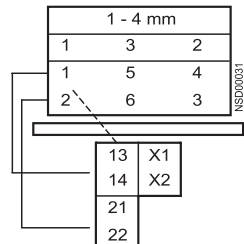
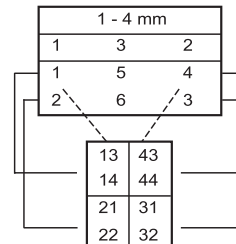
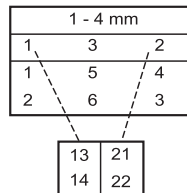
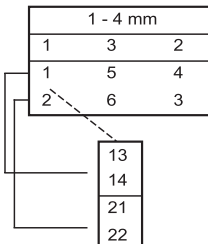
For 2 contact blocks each with 1 contact, e.g. 1 NO, 1 NC

For 2 contact blocks each with 2 contacts, e.g. 1 NO + 1 NC, 1 NO + 1 NC

For one contact block with 2 contacts, e.g. 1 NO + 1 NC and a lampholder

Mounting surface depth
Depth for contact blocks with 1 contact
Depth for contact blocks with 2 contacts

Carrier for 3 blocks
Contact blocks, lamp holders



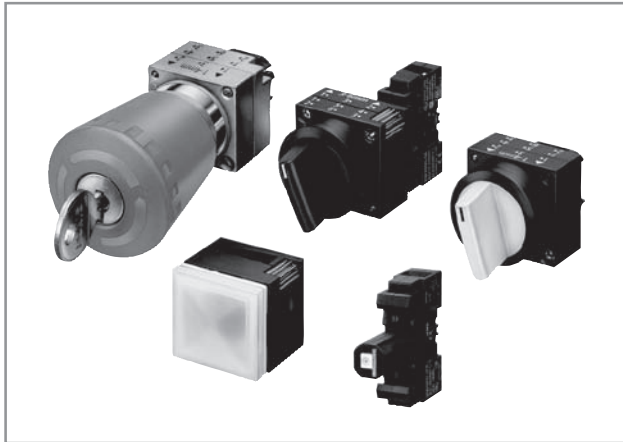
Push Button Units and Indicator Lights

3SB3 Push Buttons and Indicator Lights, 22 mm

General data

Design

The 3SB3 series is a modular range of commanding and signaling devices for front panel mounting and rear conductor connection. As an alternative, individual elements can also be supplied for use on printed circuit boards. Complete units are offered for the most commonly used applications.



Actuators and indicators and complete units

The 3SB3 series is available:

- Made of molded plastic in flat, round and square design
- Made of metal in round design.

The devices are of modern industrial design and can be mounted rapidly by a single person. The operating surfaces of the push buttons and illuminated push buttons are concave. The lenses of the indicator lights are convex.

The metal version with a high degree of protection according to IP67 and NEMA 4X is available for the world market.

One command point comprises:

- An actuator or lens assembly in front of the control panel
- A holder for mounting behind the control panel
- Up to 3 contact blocks and/or 1 lamp holder behind the control panel
- A comprehensive range of accessories for inscription

Two contact blocks can be snapped onto the actuator in the standard version.

When three contact blocks or illuminated actuators are required, an additional holder must be plugged onto the actuator from the rear.

- 3SB39 01-0AB holder for 3 contact blocks or for 2 contact blocks and 1 lamp holder
- 3SB39 01-0AC holder with pressure plates for actuating a central contact block when using a selector switch, key-operated switch and twin push button with 3 contact blocks.

For illuminated push buttons, illuminated switches and illuminated selector switches the holder is included in the scope of supply as standard.

The contact blocks are fitted with slow-action contacts with double operating contacts. These ensure a high switching reliability even with small voltages and currents, such as 5 V/1 mA. They are suitable for use in solid-state systems as well as conventional controls.

Standards

IEC 60947-1, EN 60947-1,
IEC 60947-5-1, EN 60947-5-1,
IEC 60947-5-5, EN 60947-5-5 for EMERGENCY-STOP mushroom push buttons.

Connection methods

The devices are available with screw terminals (box terminals), spring-type terminals or solder pins.



Screw terminals



Spring-type terminals



Solder pin connections

The terminals are indicated in the corresponding tables by the symbols shown on blue backgrounds.

Application

The devices are climate-proof (KTW 24) and suitable for standard industrial applications and operation in marine applications. For operation in oily atmospheres (organic oils/lubricants) we recommend actuators which are marked as "solvent-resistant".

AS-Interface solutions

The 3SB3 commanding and signaling devices can be connected to the AS-Interface communication system quickly and safely with the help of various solutions.

The following solutions are available:

- ASIsafe EMERGENCY-STOP mushroom push buttons (see page 10/97)
- AS-Interface enclosures with 1 to 6 command points (see page 10/96).
- AS-Interface front panel modules for 4 command points (see Catalog IK PI)

"Intrinsic safety" type of protection EEx i according to ATEX directive 94/9/EC

The push buttons and indicator lights in round design can also be used in hazardous areas. The 3SB34 ...-0. contact blocks and the 3SB34 ...-1A lamp holders (with 3SB39 01-1.A LED lamp) with screw terminals or spring-type terminals can be used.

See www.siemens.com/sirius/atex.

Safety EMERGENCY-STOP push buttons according to ISO 13850

For controls according to IEC 60204-1 or EN 60204-1, the mushroom push buttons of the 3SB3 series are suitable for use as safety EMERGENCY-STOP push buttons.

Safety circuits

IEC 60947-5-1 and EN 60947-5-1 require positive opening, i.e. for the purposes of personal safety, the assured opening of NC contacts is expressly stipulated for the electrical equipment of machines in all safety circuits and marked according to IEC 60947-5-1 with the symbol ☹.

Category 4 according to EN 954-1 can be attained with the EMERGENCY-STOP mushroom push buttons if the corresponding failsafe evaluation units are selected and correctly installed, e.g. the 3TK28 safety relays or matching units from the ASIsafe, SIMATIC or SINUMERIK product ranges.

Push Button Units and Indicator Lights

3SB3 Push Buttons and Indicator Lights, 22 mm

General data

1
2
3
4
5
6
7
8
9
10

Configuration

Mounting and fixing

The 3SB3 devices can be easily and quickly mounted:

- Actuators or indicator lights are positioned in the opening of the front panel from the front
- Position the holder from the rear
- Tighten the screw on the holder
- Snap on the contact block or the lamp holder directly onto the actuator from the back

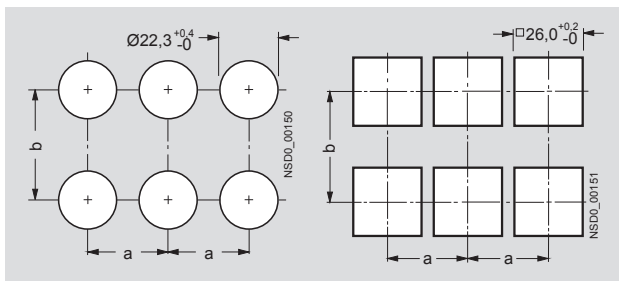
The holder for the round versions is set to a switchboard thickness of 1 to 4 mm when delivered and is placed in the direction of the arrow $\uparrow$ 1–4 mm $\uparrow$ on the actuator/indicator from the back. The fixing screw is located underneath, on the right.

For a switchboard thickness of 3 to 6 mm, the holder is reversed and mounted in the direction of the arrow at $\uparrow$ 3–6 mm $\uparrow$ and the fixing screw is located on the upper right. In this case, the fixing screw must be rotated anticlockwise to its limit before mounting the holder.

The control panel depth of 1 to 4 mm can be compensated with the holder for the square version.

When label holders, protective caps or similar accessories are used, the greatest permissible control panel thickness must be reduced by the wall thickness of the accessory part.

Mounting dimensions on front plates

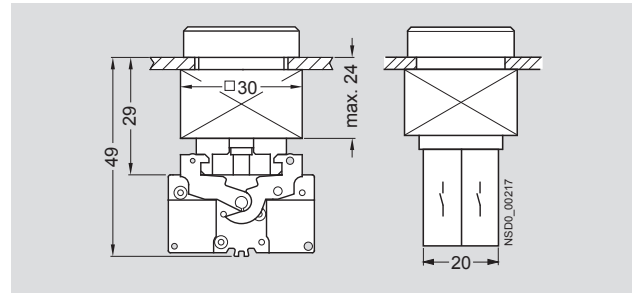


Minimum clearance	a	b
Contact blocks (1 contact) and lamp holder		
• For front plate mounting, with screw terminals	30 ¹⁾	45
• For front plate mounting with spring-type terminals	30 ¹⁾	30 ¹⁾
• For use on PCB, with solder pin connections	30 ¹⁾	30 ¹⁾
Contact blocks with 2 contacts		
• for front plate mounting	30 ¹⁾	50
When using holders for inscription labels		
• 12.5 mm × 27 mm	30 ¹⁾	45 ²⁾
• 27.0 mm × 27 mm	30 ¹⁾	60

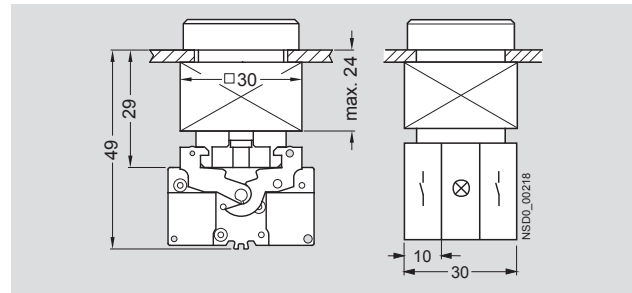
¹⁾ For mushroom push button, EMERGENCY-STOP and push-pull button:
Note mushroom diameter $d = 40$ mm or 60 mm.

²⁾ 60 mm with contact blocks having two contacts.

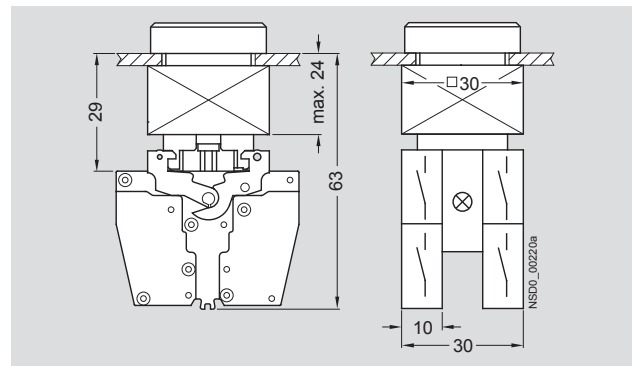
Mounting depth



Push button with two contact blocks

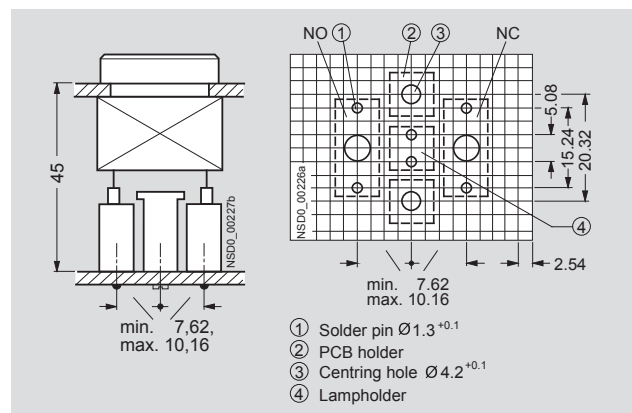


Illuminated push button with lamp holder and two contact blocks



Illuminated push button with lamp holder and two contact blocks with two contacts

Used on printed circuit boards



Illuminated push button with solder pins

Push Button Units and Indicator Lights

3SB3 Push Buttons and Indicator Lights, 22 mm

General data

Technical specifications

Type		3SB34 00-0, 3SB34 20-0	3SB14 00-0J	3SB34 00-1, 3SB34 20-1	3SB34 03-0, 3SB34 23-0	3SB34 03-1, 3SB34 23-1	3SB34 11-0	3SB34 11-1
Contact blocks and lamp holders								
Standards		IEC 60947-5-1, IEC 60947-5-5, EN 60947-5-1, EN 60947-5-5						
Connection type		 Screw terminals			 Spring-type terminals		 Solder pins	
Rated insulation voltage U_i For pollution degree according to IEC 60947-1	V	400 Class 3		250 Class 3	400 Class 3		250 Class 3	60 Class 3
Rated impulse withstand voltage U_{imp}	kV	4		4	4	4	4	1.5
Conventional thermal current I_{th}	A	10		—	10	—	10	—
Rated operational current I_e at rated operational voltage U_e								
• Alternating current 50/60 Hz, AC-12		10		—	10	—	10	
- At $U_e = 24 \dots 230$ V		A 10		—	10	—	10	—
- At $U_e = 400$ V		A 10		—	10	—	—	—
• Alternating current 50/60 Hz, AC-15								
- At $U_e = 24 \dots 230$ V		A 6	6	—	6	—	4	—
- At $U_e = 400$ V		A 3	4	—	3	—	—	—
• Direct current DC-12								
- At $U_e = 24$ V		A 10	10	—	10	—	10	—
- At $U_e = 48$ V		A 5	—	—	5	—	5	—
- At $U_e = 110$ V		A 2.5	2	—	2.5	—	2.5	—
- At $U_e = 230$ V		A 1	0.5	—	1	—	1	—
• Direct current DC-13								
- At $U_e = 24$ V		A 3	5	—	3	—	3	—
- At $U_e = 48$ V		A 1.5	—	—	1.5	—	1.5	—
- At $U_e = 110$ V		A 0.7	0.5	—	0.7	—	0.7	—
- At $U_e = 230$ V		A 0.3	0.2	—	0.3	—	0.3	—
Contact stability								
• Test voltage	V	5		—	5	—	5	—
• Test current	mA	1		—	1	—	1	—
Lamp holders		—		BA 9s	—	BA 9s	—	Wedge bases
Lamps		—		Incandescent lamps, glow lamps and LED lamps	—	Incandescent lamps, glow lamps and LED lamps	—	Incandescent lamps and LED lamps
Short-circuit protection, weld-free, acc. to IEC 60947-5-1								
• DIAZED fuse links, utilization category gG acc. to IEC 60269-3-1		Dz10 A						
• DIAZED fuse links, quick according to DIN VDE 0635		Dz 16 A						
• Miniature circuit breaker with C characteristic according to IEC 60898	A	10						
Mechanical endurance		10×10^6 operating cycles						
Electrical endurance		10×10^6 operating cycles						
• For utilization category AC-15 with 3RT20 15 to 3RT20 26 contactors								
• With utilization category DC-12, DC-13		With direct current it depends on the operational voltage, the breaking current, the circuit inductance and the switching frequency						
Switching frequency	1/h	1000 operating cycles						
Degree of protection acc. to IEC 60529								
• Connections		IP20			IP40		IP40	
• Contact chambers		IP40		—	—	—	—	—
Touch protection according to EN 61140 and BGV A3		Finger-safe			Finger-safe		—	
Conductor cross-sections ¹⁾								
• Finely stranded, without end sleeves	mm ²	—			2 × (0.25 ... 1.5)		—	
• Finely stranded, with end sleeves to DIN 46228	mm ²	2 × (0.5 ... 1.5)			2 × (0.25 ... 0.75)		—	
• Solid	mm ²	2 × (1 ... 1.5)			2 × (0.25 ... 1.5)		—	
• Solid with end sleeves to DIN 46228	mm ²	2 × (0.5 ... 0.75)			—		—	
• AWG cables, solid or stranded		2 × AWG 18 ... 14			2 × AWG 24 ... 16		—	
Tightening torque, terminal screw	Nm	0.8			—		—	
Solder pins	mm ²	—			—		0.8 × 0.8	

¹⁾ For standard screwdriver size 2 or Pozidriv 2.

Push Button Units and Indicator Lights

3SB3 Push Buttons and Indicator Lights, 22 mm

General data

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Type	3SB34 00-0, 3SB34 20-0	3SB34 00-1, 3SB34 20-1	3SB34 03-0, 3SB34 23-0	3SB34 03-1, 3SB34 23-1	3SB34 11-0	3SB34 11-1
Data according to UL and CSA						
Rated operational voltage	V AC 300	—	300	—	300	—
Conventional thermal current (uninterrupted current)	A 10	—	10	—	10	—
Switching capacity	A 300, R 300, A 600 same polarity					
Rated voltage (lamps)						
• Lamp with BA 9s base	V AC —	125	—	125	—	—
• Lamp with wedge base	V AC —	60	—	60	—	60
• Lamp holders with integrated LED	V —	24 AC/DC, 110 AC, 230 AC	—	24 AC/DC, 110 AC, 230 AC	—	—
Rated power (lamps)	W —	2.5	—	2.5	—	1

Type	3SB30, 3SB32 (3SB31)		3SB31, 3SB33	3SB35, 3SB36
Actuators and indicators				
Enclosure material	Plastic			Metal
Design	Round	Square		Round
Terminal designation acc. to EN 50013	Identification number on the holder, function digit on the contact block			
Device identification	Snap-on label			
Tightening torques				
• Screw on holder	Nm	max. 1		
Mechanical endurance				
• Push buttons		10 × 10 ⁶ operating cycles		
• Illuminated push buttons		3 × 10 ⁶ operating cycles		
• Actuators, rotary or maintained		3 × 10 ⁵ operating cycles		
• Key-operated switch with key monitoring		1 × 10 ⁵ operating cycles		
Switching frequency	1/h	1000 operating cycles		
Climatic withstand capability acc. to EN ISO 6270-2		Climate-proof KTW24; suitable for marine applications		
Ambient temperature				
• During operation, non-illuminated and with LED	°C	-25 ... +70		
• During operation, devices with incandescent lamp	°C	-25 ... +60		
• During storage, transport	°C	-40 ... +80		
Degree of protection acc. to IEC 60529 and NEMA Standards				
• Actuators and indicators, standard		IP66; NEMA Type 1,3,4,4X, 12	IP65; NEMA Type 1,3,4,4X, 12	IP67; NEMA Type 1,3,4,4X, 12
- with protective caps		IP67; NEMA Type 1,3,4,4X, 12	IP67; NEMA Type 1,3,4,4X, 12	—
• Key-operated switch with key monitoring		IP54; NEMA Type 1,3,4,4X, 12	—	—
• Twin push buttons (3SB31)		IP65; NEMA Type 1,3,4,4X, 12	—	—
Protective measures		Protective measures are met automatically when the actuators and lens assemblies are mounted on metal front plates and enclosures. When mounted in insulated enclosures, the "total insulation" protective measures are met.		Grounding is necessary for operation with protective extra-low voltage (PELV).
Shock resistance according to IEC 60068-2-27 for half-sine shock type, 11 ms shock duration				
• Devices without incandescent lamp		≤ 50 g		
• Devices with incandescent lamp		≤ 30 g		
Vibration resistance acc. to IEC 60068-2-6				
• Acceleration at frequency 20 ... 200 Hz		5 g		

Type	3SB38 0.-0, 3SB38 0.-1	—	3SB38 0.-2, 3SB38 0.-3
Enclosures			
Enclosure material	Plastic		Metal
Actuators and indicators	Plastic, round		Metal, round
Degree of protection acc. to IEC 60529	IP65		IP67 and NEMA Type 4
Resistance to extreme climates acc. to DIN 50017	KTW 24		KTW 24

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

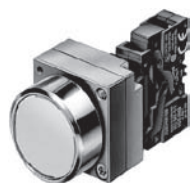
Complete Units

Selection and ordering data

Rated voltage of lamp	Color of handle	Contacts for front plate mounting	DT	Screw terminals	DT	Spring-type terminals
				Configurator		Configurator
				Order No.		Order No.

V

Push buttons



Push button with flat button

Push buttons with flat button

Black	1 NO	3SB36 02-0AA11	3SB36 02-0AA11-0CC0
Black	1 NC	3SB36 03-0AA11	3SB36 03-0AA11-0CC0
Red	1 NC	3SB36 03-0AA21	3SB36 03-0AA21-0CC0
Yellow	1 NO	3SB36 02-0AA31	3SB36 02-0AA31-0CC0
Green	1 NO	3SB36 02-0AA41	3SB36 02-0AA41-0CC0
Blue	1 NO	3SB36 02-0AA51	3SB36 02-0AA51-0CC0
White	1 NO	3SB36 02-0AA61	3SB36 02-0AA61-0CC0
Black	1 NO + 1 NC	3SB36 01-0AA11	3SB36 01-0AA11-0CC0
Red	1 NO + 1 NC	3SB36 01-0AA21	3SB36 01-0AA21-0CC0
Yellow	1 NO + 1 NC	3SB36 01-0AA31	3SB36 01-0AA31-0CC0
Green	1 NO + 1 NC	3SB36 01-0AA41	3SB36 01-0AA41-0CC0
Blue	1 NO + 1 NC	3SB36 01-0AA51	3SB36 01-0AA51-0CC0
White	1 NO + 1 NC	3SB36 01-0AA61	3SB36 01-0AA61-0CC0
Clear	1 NO + 1 NC	3SB36 01-0AA71	—

Push button unit with extended button

Black	1 NO	3SB36 02-0BA11	—
Black	1 NC	3SB36 03-0BA11	—
Red	1 NC	3SB36 03-0BA21	—
Yellow	1 NO	3SB36 02-0BA31	—
Blue	1 NO	3SB36 02-0BA51	—
White	1 NO	3SB36 02-0BA61	—
Black	1 NO + 1 NC	3SB36 01-0BA11	—
Red	1 NO + 1 NC	3SB36 01-0BA21	—
Yellow	1 NO + 1 NC	3SB36 01-0BA31	—
Green	1 NO + 1 NC	3SB36 01-0BA41	—
Blue	1 NO + 1 NC	3SB36 01-0BA51	—
White	1 NO + 1 NC	3SB36 01-0BA61	—

Illuminated push buttons with flat button

momentary with integrated LED
(incl. holder for 3 elements)

24 AC/DC	Red ¹⁾	1 NC	3SB36 46-0AA21	3SB36 46-0AA21-0CC0
	Yellow ¹⁾	1 NO	3SB36 45-0AA31	3SB36 45-0AA31-0CC0
	Green ¹⁾	1 NO	3SB36 45-0AA41	3SB36 45-0AA41-0CC0
	Blue ¹⁾	1 NO	3SB36 45-0AA51	3SB36 45-0AA51-0CC0
	White	1 NO	3SB36 45-0AA61	3SB36 45-0AA61-0CC0
	Clear ¹⁾	1 NO	3SB36 45-0AA71	3SB36 45-0AA71-0CC0
	Red ¹⁾	1 NO + 1 NC	3SB36 47-0AA21	3SB36 47-0AA21-0CC0
	Yellow ¹⁾	1 NO + 1 NC	3SB36 47-0AA31	3SB36 47-0AA31-0CC0
	Green ¹⁾	1 NO + 1 NC	3SB36 47-0AA41	3SB36 47-0AA41-0CC0
	Blue ¹⁾	1 NO + 1 NC	3SB36 47-0AA51	3SB36 47-0AA51-0CC0
	White	1 NO + 1 NC	3SB36 47-0AA61	3SB36 47-0AA61-0CC0
	Clear ¹⁾	1 NO + 1 NC	3SB36 47-0AA71	3SB36 47-0AA71-0CC0

110 AC	Red ¹⁾	1 NC	3SB36 50-0AA21	—
	Yellow ¹⁾	1 NO	3SB36 57-0AA31	—
	Green ¹⁾	1 NO	3SB36 57-0AA41	—
	Blue ¹⁾	1 NO	3SB36 57-0AA51	—
	White	1 NO	3SB36 57-0AA61	—
	Clear ¹⁾	1 NO	3SB36 57-0AA71	—

	Red ¹⁾	1 NO + 1 NC	3SB36 51-0AA21	—
	Yellow ¹⁾	1 NO + 1 NC	3SB36 51-0AA31	—
	Green ¹⁾	1 NO + 1 NC	3SB36 51-0AA41	—
	Blue ¹⁾	1 NO + 1 NC	3SB36 51-0AA51	—
	White	1 NO + 1 NC	3SB36 51-0AA61	—
	Clear ¹⁾	1 NO + 1 NC	3SB36 51-0AA71	—

230 AC	Red ¹⁾	1 NC	3SB36 54-0AA21	3SB36 54-0AA21-0CC0
	Yellow ¹⁾	1 NO	3SB36 53-0AA31	3SB36 53-0AA31-0CC0
	Green ¹⁾	1 NO	3SB36 53-0AA41	3SB36 53-0AA41-0CC0
	Blue ¹⁾	1 NO	3SB36 53-0AA51	3SB36 53-0AA51-0CC0
	White	1 NO	3SB36 53-0AA61	3SB36 53-0AA61-0CC0
	Clear ¹⁾	1 NO	3SB36 53-0AA71	3SB36 53-0AA71-0CC0

	Red ¹⁾	1 NO + 1 NC	3SB36 55-0AA21	3SB36 55-0AA21-0CC0
	Yellow ¹⁾	1 NO + 1 NC	3SB36 55-0AA31	3SB36 55-0AA31-0CC0
	Green ¹⁾	1 NO + 1 NC	3SB36 55-0AA41	3SB36 55-0AA41-0CC0
	Blue ¹⁾	1 NO + 1 NC	3SB36 55-0AA51	3SB36 55-0AA51-0CC0
	White	1 NO + 1 NC	3SB36 55-0AA61	3SB36 55-0AA61-0CC0
	Clear ¹⁾	1 NO + 1 NC	3SB36 55-0AA71	3SB36 55-0AA71-0CC0

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Inscription is possible by inserting a label.

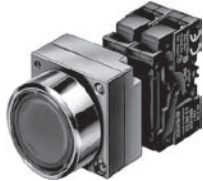
Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Complete Units

Rated voltage of lamp	Color of handle	Contacts for front plate mounting	DT	Screw terminals	DT	Spring-type terminals
				Configurator		Configurator
				Order No.		Order No.

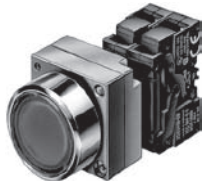
Push buttons



Illuminated push button with flat button

Illuminated push buttons with flat button
with BA 9s lamp holder, without lamp
(incl. holder for 3 elements)

—	Red ¹⁾	1 NC	3SB36 07-0AA21	3SB36 07-0AA21-0CC0
	Amber ¹⁾	1 NO	3SB36 06-0AA01	—
	Yellow ¹⁾	1 NO	3SB36 06-0AA31	3SB36 06-0AA31-0CC0
	Green ¹⁾	1 NO	3SB36 06-0AA41	3SB36 06-0AA41-0CC0
	Blue ¹⁾	1 NO	3SB36 06-0AA51	3SB36 06-0AA51-0CC0
	White	1 NO	3SB36 06-0AA61	3SB36 06-0AA61-0CC0
	Clear ¹⁾	1 NO	3SB36 06-0AA71	3SB36 06-0AA71-0CC0
	Red ¹⁾	1 NO + 1 NC	3SB36 05-0AA21	3SB36 05-0AA21-0CC0
	Amber ¹⁾	1 NO + 1 NC	3SB36 05-0AA01	—
	Yellow ¹⁾	1 NO + 1 NC	3SB36 05-0AA31	3SB36 05-0AA31-0CC0
	Green ¹⁾	1 NO + 1 NC	3SB36 05-0AA41	3SB36 05-0AA41-0CC0
	Blue ¹⁾	1 NO + 1 NC	3SB36 05-0AA51	3SB36 05-0AA51-0CC0
	White	1 NO + 1 NC	3SB36 05-0AA61	3SB36 05-0AA61-0CC0
	Clear ¹⁾	1 NO + 1 NC	3SB36 05-0AA71	3SB36 05-0AA71-0CC0

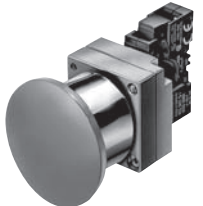


Illuminated push button with flat button

Illuminated push buttons with flat, solvent-resistant button²⁾,
with integrated LED (incl. holder for 3 elements)

24 AC/DC	Red ¹⁾	1 NC	3SB36 46-0AA21-0PA0	—
	Yellow ¹⁾	1 NO	3SB36 45-0AA31-0PA0	—
	Green ¹⁾	1 NO	3SB36 45-0AA41-0PA0	—
	Blue ¹⁾	1 NO	3SB36 45-0AA51-0PA0	—
	White	1 NO	3SB36 45-0AA61-0PA0	—
	Clear ¹⁾	1 NO	3SB36 45-0AA71-0PA0	—
	Red ¹⁾	1 NO + 1 NC	3SB36 47-0AA21-0PA0	—
	Yellow ¹⁾	1 NO + 1 NC	3SB36 47-0AA31-0PA0	—
	Green ¹⁾	1 NO + 1 NC	3SB36 47-0AA41-0PA0	—
	Blue ¹⁾	1 NO + 1 NC	3SB36 47-0AA51-0PA0	—
	White	1 NO + 1 NC	3SB36 47-0AA61-0PA0	—
	Clear ¹⁾	1 NO + 1 NC	3SB36 47-0AA71-0PA0	—

Mushroom push buttons



Mushroom push-pull button

Mushroom push-pull buttons, Ø 40 mm, maintained
with pull-to-unlatch mechanism

—	Red	1 NC	3SB36 03-1CA21	3SB36 03-1CA21-0CC0
		1 NO + 1 NC	3SB36 01-1CA21	3SB36 01-1CA21-0CC0

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Inscription is possible by inserting a label.

²⁾ Not suitable for laser inscription.

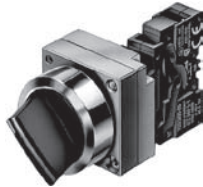
Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Complete Units

Version	Color of handle/ Lock No.	Contacts for front plate mounting	DT	Screw terminals	DT	Spring-type terminals
				Configurator		Configurator
				Order No.		Order No.

Selector switches



Selector switch

Selector switches, 2 switch positions

Switching sequence O-I, 50° operating angle

Latching	Black, Standard	1 NO
		1 NO + 1 NC
	Black, Heavy duty	1 NO
		1 NO + 1 NC

Selector switches, 3 switch positions

switching sequence I-O-II, 2 x 50° operating angle

Latching	Black, Standard	1 NO, 1 NO
		1 NO + 1 NC, 1 NO + 1 NC
	Black, Heavy duty	1 NO, 1 NO
		1 NO + 1 NC, 1 NO + 1 NC

Momentary, spring return from the left and right	Black, Standard	1 NO, 1 NO
		1 NO + 1 NC, 1 NO + 1 NC

	Black, Heavy duty	1 NO, 1 NO
		1 NO + 1 NC, 1 NO + 1 NC

3SB36 02-2KA11
3SB36 01-2KA11
3SB36 02-2PA11
3SB36 01-2PA11

3SB36 02-2KA11-0CC0
3SB36 01-2KA11-0CC0

—
—

3SB36 10-2DA11
3SB36 08-2DA11

3SB36 10-2DA11-0CC0
3SB36 08-2DA11-0CC0

3SB36 10-2SA11
3SB36 08-2SA11

—
—

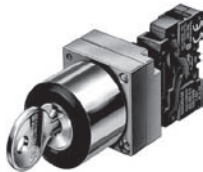
3SB36 10-2EA11
3SB36 08-2EA11

3SB36 10-2EA11-0CC0
3SB36 08-2EA11-0CC0

3SB36 10-2TA11
3SB36 08-2TA11

—
—

Key-operated switches



RONIS key-operated switch

RONIS key-operated switch, 2 switch positions

with 2 keys, removal position O + I,
switching sequence O-I, 50° operating angle

Latching	SB 30	1 NO
		1 NO + 1 NC

3SB36 02-4AD11
3SB36 01-4AD11

3SB36 02-4AD11-0CC0
3SB36 01-4AD11-0CC0

For online configurator see www.siemens.com/sirius/configurators.

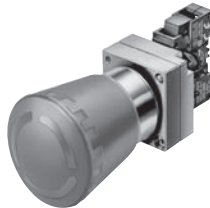
Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Complete Units

Color of handle	Contacts for front plate mounting	DT	Screw terminals 	DT	Spring-type terminals 
			Configurator 		Configurator 
			Order No.		Order No.

EMERGENCY-STOP devices according to ISO 13850, with yellow name plate, Ø 80 mm, with inscription



EMERGENCY-STOP mushroom push button with rotate-to-unlatch mechanism

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with positive maintained function, with rotate-to-unlatch mechanism

- English inscription "EMERGENCY STOP"

Red	1 NC	➞
	1 NC with mounting monitoring	➞
	1 NO + 1 NC	➞

3SB36 03-1HR20

—

3SB36 66-1HR20

—

3SB36 01-1HR20

—



EMERGENCY-STOP mushroom push button with rotate-to-unlatch mechanism and switch position indication

With rotate-to-unlatch mechanism and mechanical switch position indication

- English inscription "EMERGENCY STOP"

Red	1 NC	➞
	1 NC with mounting monitoring	➞
	1 NO + 1 NC	➞

3SB36 03-1HR26

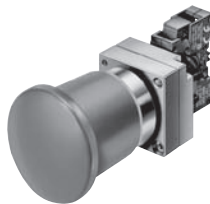
—

3SB36 66-1HR26

—

3SB36 01-1HR26

—



EMERGENCY-STOP mushroom push button Pull-to-unlatch mechanism

With pull-to-unlatch mechanism, solvent-resistant

- English inscription "EMERGENCY STOP"

Red	1 NC	➞
	1 NO + 1 NC	➞

3SB36 03-1TR20

—

3SB36 01-1TR20

—

For online configurator see www.siemens.com/sirius/configurators.

➞ Positive opening according to IEC 60947-5-1, Appendix K.
Can be used with 3TK28 safety relays.
Certificate:



Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Complete Units

Rated voltage of lamp		Color of lens	DT	Screw terminals 	DT	Spring-type terminals 
				Configurator 		Configurator 
V				Order No.		Order No.
Indicator lights						
	Indicator lights with lens with concentric rings¹⁾ with integrated LED					
	24 AC/DC	Red Yellow Green Blue White Clear Amber		3SB36 44-6BA20 3SB36 44-6BA30 3SB36 44-6BA40 3SB36 44-6BA50 3SB36 44-6BA60 3SB36 44-6BA70 3SB36 44-6BA00		3SB36 44-6BA20-0CC0 3SB36 44-6BA30-0CC0 3SB36 44-6BA40-0CC0 3SB36 44-6BA50-0CC0 3SB36 44-6BA60-0CC0 3SB36 44-6BA70-0CC0 —
	110 AC	Red Yellow Green Blue White Clear Amber		3SB36 48-6BA20 3SB36 48-6BA30 3SB36 48-6BA40 3SB36 48-6BA50 3SB36 48-6BA60 3SB36 48-6BA70 3SB36 48-6BA00		3SB36 48-6BA20-0CC0 3SB36 48-6BA30-0CC0 3SB36 48-6BA40-0CC0 3SB36 48-6BA50-0CC0 3SB36 48-6BA60-0CC0 3SB36 48-6BA70-0CC0 —
	230 AC	Red Yellow Green Blue White Clear		3SB36 52-6BA20 3SB36 52-6BA30 3SB36 52-6BA40 3SB36 52-6BA50 3SB36 52-6BA60 3SB36 52-6BA70		3SB36 52-6BA20-0CC0 3SB36 52-6BA30-0CC0 3SB36 52-6BA40-0CC0 3SB36 52-6BA50-0CC0 3SB36 52-6BA60-0CC0 3SB36 52-6BA70-0CC0
	With BA 9s lamp holder, without lamp	Red Yellow Green Blue White Clear		3SB36 04-6BA20 3SB36 04-6BA30 3SB36 04-6BA40 3SB36 04-6BA50 3SB36 04-6BA60 3SB36 04-6BA70		3SB36 04-6BA20-0CC0 3SB36 04-6BA30-0CC0 3SB36 04-6BA40-0CC0 3SB36 04-6BA50-0CC0 3SB36 04-6BA60-0CC0 3SB36 04-6BA70-0CC0

 For online configurator see www.siemens.com/sirius/configurators.

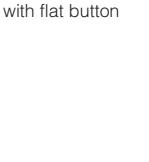
¹⁾ Inscription by inserting a label is not possible.

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Actuators and Indicators

Selection and ordering data

Version	Inscriptions	Color of handle	DT	Configurator	PS		
				Order No.			
Push buttons with holder ¹⁾							
	Push buttons with flat button	Black		3SB35 00-0AA11	1 unit		
		Red		3SB35 00-0AA21	1 unit		
		Yellow		3SB35 00-0AA31	1 unit		
		Green		3SB35 00-0AA41	1 unit		
		Blue		3SB35 00-0AA51	1 unit		
		White		3SB35 00-0AA61	1 unit		
		Gray		3SB35 00-0AB51	1 unit		
		Clear ²⁾		3SB35 00-0AA71	1 unit		
		Up	Black	3SB35-00-0AA11-ZED	1 unit		
		Down	Black	3SB35-00-0AA11-ZEE	1 unit		
		Forward	Black	3SB35-00-0AA11-ZEF	1 unit		
		Reverse	Black	3SB35-00-0AA11-ZEG	1 unit		
		On	Green	3SB35 00-0AA41-ZEB	1 unit		
		Start	Green	3SB35 00-0AA41-ZEL	1 unit		
		I	Green	3SB35 00-0AA81	1 unit		
		O	Red	3SB35 00-0AB01	1 unit		
	Push buttons with flat solvent-resistant button ³⁾	Black		3SB35 00-0AA11	1 unit		
		Red		3SB35 00-0AA21-0PA0	1 unit		
		Yellow		3SB35 00-0AA31-0PA0	1 unit		
		Green		3SB35 00-0AA41-0PA0	1 unit		
		Blue		3SB35 00-0AA51-0PA0	1 unit		
		White		3SB35 00-0AA61-0PA0	1 unit		
			Push buttons with raised button	Black		3SB35 00-0BA11	1 unit
				Red		3SB35 00-0BA21	1 unit
Yellow				3SB35 00-0BA31	1 unit		
Green				3SB35 00-0BA41	1 unit		
Blue				3SB35 00-0BA51	1 unit		
White				3SB35 00-0BA61	1 unit		
Off	Red			3SB35-00-0BA21-ZEC	1 unit		
Stop	Red			3SB35-00-0BA21-ZEK	1 unit		
	Push buttons with raised front ring (height 15.5 mm)	Black		3SB35 00-0AA12	1 unit		
		Red		3SB35 00-0AA22	1 unit		
		Yellow		3SB35 00-0AA32	1 unit		
		Green		3SB35 00-0AA42	1 unit		
		Blue		3SB35 00-0AA52	1 unit		
		White		3SB35 00-0AA62	1 unit		
	Illuminated push buttons with flat button (incl. holder for 3 elements)	Amber ²⁾		3SB35 01-0AA01	1 unit		
		Red ²⁾		3SB35 01-0AA21	1 unit		
		Yellow ²⁾		3SB35 01-0AA31	1 unit		
		Green ²⁾		3SB35 01-0AA41	1 unit		
		Blue ²⁾		3SB35 01-0AA51	1 unit		
		White		3SB35 01-0AA61	1 unit		
		Clear ²⁾		3SB35 01-0AA71	1 unit		
			Illuminated push buttons with flat, solvent-resistant button ³⁾ (incl. holder for 3 elements)	Red ²⁾		3SB35 01-0AA21-0PA0	1 unit
Yellow ²⁾				3SB35 01-0AA31-0PA0	1 unit		
Green ²⁾				3SB35 01-0AA41-0PA0	1 unit		
Blue ²⁾				3SB35 01-0AA51-0PA0	1 unit		
White				3SB35 01-0AA61-0PA0	1 unit		
Clear ²⁾				3SB35 01-0AA71-0PA0	1 unit		
	Illuminated push buttons with raised button (incl. holder for 3 elements)			Amber		3SB35 01-0BA01	1 unit
				Red		3SB35 01-0BA21	1 unit
		Yellow		3SB35 01-0BA31	1 unit		
		Green		3SB35 01-0BA41	1 unit		
		Blue		3SB35 01-0BA51	1 unit		
		White		3SB35 01-0BA61	1 unit		
		Clear		3SB35 01-0BA71	1 unit		
			Push buttons with flat button, maintained, unlatches by pressing again	Black		3SB35 00-0DA11	1 unit
Red				3SB35 00-0DA21	1 unit		
Yellow				3SB35 00-0DA31	1 unit		
Green				3SB35 00-0DA41	1 unit		
Blue				3SB35 00-0DA51	1 unit		
White				3SB35 00-0DA61	1 unit		
Gray				3SB35 00-0DB51	1 unit		
	Illuminated push buttons with flat button, maintained, unlatches by pressing again (incl. holder for 3 elements)			Amber ²⁾		3SB35 01-0DA01	1 unit
		Red ²⁾		3SB35 01-0DA21	1 unit		
		Yellow ²⁾		3SB35 01-0DA31	1 unit		
		Green ²⁾		3SB35 01-0DA41	1 unit		
		Blue ²⁾		3SB35 01-0DA51	1 unit		
		White		3SB35 01-0DA61	1 unit		
		Clear ²⁾		3SB35 01-0DA71	1 unit		

¹⁾ For online configurator see www.siemens.com/sirius/configurators.

²⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

³⁾ Inscription is possible by inserting a label.

⁴⁾ Not suitable for laser inscription.

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Actuators and Indicators

Version	Color of handle	DT	Configurator	PS		
			Order No.			
Mushroom push buttons with holder ¹⁾						
	Mushroom push buttons, Ø 30 mm	Black Red Yellow Green	3SB35 00-1DA11 3SB35 00-1DA21 3SB35 00-1DA31 3SB35 00-1DA41	1 unit 1 unit 1 unit 1 unit		
	Mushroom push buttons, Ø 40 mm	Black Red Yellow Green	3SB35 00-1GA11 3SB35 00-1GA21 3SB35 00-1GA31 3SB35 00-1GA41	1 unit 1 unit 1 unit 1 unit		
	Mushroom push buttons, Ø 60 mm	Black Red Yellow Green	3SB35 00-1QA11 3SB35 00-1QA21 3SB35 00-1QA31 3SB35 00-1QA41	1 unit 1 unit 1 unit 1 unit		
	Illuminated mushroom push buttons, Ø 30 mm (incl. holder for 3 elements)	Amber Yellow Green White	3SB35 01-1DA01 3SB35 01-1DA31 3SB35 01-1DA41 3SB35 01-1DA61	1 unit 1 unit 1 unit 1 unit		
	Illuminated mushroom push buttons, Ø 40 mm (incl. holder for 3 elements)	Amber Yellow Green White Clear	3SB35 01-1GA01 3SB35 01-1GA31 3SB35 01-1GA41 3SB35 01-1GA61 3SB35 01-1GA71	1 unit 1 unit 1 unit 1 unit 1 unit		
	Illuminated mushroom push buttons, Ø 60 mm (incl. holder for 3 elements)	Amber Yellow Green White	3SB35 01-1QA01 3SB35 01-1QA31 3SB35 01-1QA41 3SB35 01-1QA61	1 unit 1 unit 1 unit 1 unit		
		Push-pull buttons, Ø 30 mm, maintained, pull to unlatch	Black Red	3SB35 00-1EA11 3SB35 00-1EA21	1 unit 1 unit	
		Push-pull buttons, Ø 40 mm, maintained, pull to unlatch	Black Red Yellow Green	3SB35 00-1CA11 3SB35 00-1CA21 3SB35 00-1CA31 3SB35 00-1CA41	1 unit 1 unit 1 unit 1 unit	
Push-pull buttons, Ø 60 mm, maintained, pull to unlatch		Black Red	3SB35 00-1RA11 3SB35 00-1RA21	1 unit 1 unit		
		Push-pull buttons, Ø 30 mm, maintained, pull to unlatch, can be illuminated (incl. holder for 3 elements)	Amber Red Yellow Green Blue Clear	3SB35 01-1EA01 3SB35 01-1EA21 3SB35 01-1EA31 3SB35 01-1EA41 3SB35 01-1EA51 3SB35 01-1EA71	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	
		Push-pull buttons, Ø 40 mm, maintained, pull to unlatch, can be illuminated (incl. holder for 3 elements)	Amber Red Yellow Green Blue Clear	3SB35 01-1CA01 3SB35 01-1CA21 3SB35 01-1CA31 3SB35 01-1CA41 3SB35 01-1CA51 3SB35 01-1CA71	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	
			Push-pull buttons, Ø 60 mm, maintained, pull to unlatch, can be illuminated (incl. holder for 3 elements)	Amber Red Yellow Green Blue Clear	3SB35 01-1RA01 3SB35 01-1RA21 3SB35 01-1RA31 3SB35 01-1RA41 3SB35 01-1RA51 3SB35 01-1RA71	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Actuators and Indicators

1
2
3
4
5
6
7
8
9
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Version	Version Illumination	Color of handle	DT	Configurator 	PS
				Order No.	

Selector switches with holders



Selector switch, 2 switch positions, standard version, 90°

Selector switches with 2 switch positions

Switching sequence O-I, 90° operating angle, maintained



Non-illuminated, standard version¹⁾

Black
Red
Green
White

3SB35 00-2HA11
3SB35 00-2HA21
3SB35 00-2HA41
3SB35 00-2HA61

1 unit
1 unit
1 unit
1 unit

Non-illuminated, with solvent-resistant short handle¹⁾

Black
Red
Green

3SB35 00-2HA11-0PA0
3SB35 00-2HA21-0PA0
3SB35 00-2HA41-0PA0

1 unit
1 unit
1 unit

Illuminated, standard version¹⁾
(incl. holder for 3 elements)

Amber
Red
Yellow
Green
Blue
Clear

3SB35 01-2HA01
3SB35 01-2HA21
3SB35 01-2HA31
3SB35 01-2HA41
3SB35 01-2HA51
3SB35 01-2HA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit



Selector switch, 2 switch positions, standard version, 50°

Switching sequence O-I, 50° operating angle, maintained



Non-illuminated, standard version¹⁾

Black
Red
Green
White

3SB35 00-2KA11
3SB35 00-2KA21
3SB35 00-2KA41
3SB35 00-2KA61

1 unit
1 unit
1 unit
1 unit

Non-illuminated, with solvent-resistant short handle¹⁾

Black
Red
Green

3SB35 00-2KA11-0PA0
3SB35 00-2KA21-0PA0
3SB35 00-2KA41-0PA0

1 unit
1 unit
1 unit

Illuminated, standard version¹⁾
(incl. holder for 3 elements)

Amber
Red
Yellow
Green
Blue
Clear

3SB35 01-2KA01
3SB35 01-2KA21
3SB35 01-2KA31
3SB35 01-2KA41
3SB35 01-2KA51
3SB35 01-2KA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit



Selector switch, 2 switch positions, heavy-duty version

Illuminated, with solvent-resistant short handle¹⁾ (incl. holder for 3 elements)

Red
Green
Blue
Clear

3SB35 01-2KA21-0PA0
3SB35 01-2KA41-0PA0
3SB35 01-2KA51-0PA0
3SB35 01-2KA71-0PA0

1 unit
1 unit
1 unit
1 unit

Non-illuminated, heavy-duty version

Black
Red
Green
White

3SB35 00-2PA11
3SB35 00-2PA21
3SB35 00-2PA41
3SB35 00-2PA61

1 unit
1 unit
1 unit
1 unit

Illuminated, heavy-duty version
(incl. holder for 3 elements)

Amber
Red
Yellow
Green
Blue
Clear

3SB35 01-2PA01
3SB35 01-2PA21
3SB35 01-2PA31
3SB35 01-2PA41
3SB35 01-2PA51
3SB35 01-2PA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit



Selector switch, 2 switch positions, long handle

Non-illuminated, long handle, heavy duty version

Black
Red
Green
White

3SB35 00-3PA11
3SB35 00-3PA21
3SB35 00-3PA41
3SB35 00-3PA61

1 unit
1 unit
1 unit
1 unit

Illuminated long handle, heavy duty version
(incl. holder for 3 elements)

Red
Yellow
Green
Blue
Amber
Clear

3SB35 01-3PA21
3SB35 01-3PA31
3SB35 01-3PA41
3SB35 01-3PA51
3SB35 01-3PA01
3SB35 01-3PA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

 For online configurator see www.siemensv.com/sirius/configurators

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Actuators and Indicators

Version	Version Illumination	Color of handle	DT	Configurator 	PS
				Order No.	

Selector switches with holders



Selector switch, 2 switch positions, standard version



Selector switch, 2 switch positions, heavy-duty version



Selector switch, 2 switch positions, long handle

Selector switches with 2 switch positions

Switching sequence O-I,
50° operating angle,
momentary, spring
return from the right



Non-illuminated, standard version¹⁾ Non-illuminated, with solvent-resistant short handle¹⁾ Illuminated, standard version¹⁾ (incl. holder for 3 elements) Illuminated, with solvent-resistant short handle¹⁾ (incl. holder for 3 elements) Non-illuminated, heavy-duty version Illuminated, heavy-duty version (incl. holder for 3 elements) Non-illuminated, long handle, heavy-duty version (incl. holder for 3 elements) Illuminated long handle, heavy-duty version (incl. holder for 3 elements)	Black	3SB35 00-2LA11	1 unit
	Red	3SB35 00-2LA21	1 unit
	Green	3SB35 00-2LA41	1 unit
	White	3SB35 00-2LA61	1 unit
	Black	3SB35 00-2LA11-0PA0	1 unit
	Red	3SB35 00-2LA21-0PA0	1 unit
	Green	3SB35 00-2LA41-0PA0	1 unit
	Amber	3SB35 01-2LA01	1 unit
	Red	3SB35 01-2LA21	1 unit
	Yellow	3SB35 01-2LA31	1 unit
	Green	3SB35 01-2LA41	1 unit
	Blue	3SB35 01-2LA51	1 unit
	Clear	3SB35 01-2LA71	1 unit
	Red	3SB35 01-2LA21-0PA0	1 unit
	Green	3SB35 01-2LA41-0PA0	1 unit
	Blue	3SB35 01-2LA51-0PA0	1 unit
	Clear	3SB35 01-2LA71-0PA0	1 unit
	Black	3SB35 00-2QA11	1 unit
	Red	3SB35 00-2QA21	1 unit
	Green	3SB35 00-2QA41	1 unit
	White	3SB35 00-2QA61	1 unit
	Amber	3SB35 01-2QA01	1 unit
	Red	3SB35 01-2QA21	1 unit
	Yellow	3SB35 01-2QA31	1 unit
	Green	3SB35 01-2QA41	1 unit
	Blue	3SB35 01-2QA51	1 unit
	Clear	3SB35 01-2QA71	1 unit
	Black	3SB35 00-3QA11	1 unit
	Red	3SB35 00-3QA21	1 unit
	Green	3SB35 00-3QA41	1 unit
	White	3SB35 00-3QA61	1 unit
	Amber	3SB35 01-3QA01	1 unit
	Red	3SB35 01-3QA21	1 unit
	Yellow	3SB35 01-3QA31	1 unit
	Green	3SB35 01-3QA41	1 unit
	Blue	3SB35 01-3QA51	1 unit
	Clear	3SB35 01-3QA71	1 unit

 For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Actuators and Indicators

Version	Version Illumination	Color of handle	DT	Configurator 	PS
				Order No.	

Selector switches with holders



Selector switch, 3 switch positions, standard version



Selector switch, 3 switch positions, heavy-duty version



Selector switch, 3 switch positions, long handle

Selector switches with 3 switch positions

Switching sequence I-O-II, 2 x 50° operating angle, maintained



Non-illuminated, standard version¹⁾

Black
Red
Green
White

3SB35 00-2DA11
3SB35 00-2DA21
3SB35 00-2DA41
3SB35 00-2DA61

1 unit
1 unit
1 unit
1 unit

Non-illuminated, with solvent-resistant short handle¹⁾

Black
Red
Green

3SB35 00-2DA11-0PA0
3SB35 00-2DA21-0PA0
3SB35 00-2DA41-0PA0

1 unit
1 unit
1 unit

Illuminated, standard version¹⁾ (incl. holder for 3 elements)

Amber
Red
Yellow
Green
Blue
Clear

3SB35 01-2DA01
3SB35 01-2DA21
3SB35 01-2DA31
3SB35 01-2DA41
3SB35 01-2DA51
3SB35 01-2DA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

Illuminated, with solvent-resistant short handle¹⁾ (incl. holder for 3 elements)

Red
Green
Blue
Clear

3SB35 01-2DA21-0PA0
3SB35 01-2DA41-0PA0
3SB35 01-2DA51-0PA0
3SB35 01-2DA71-0PA0

1 unit
1 unit
1 unit
1 unit

Non-illuminated, heavy-duty version

Black
Red
Green
White

3SB35 00-2SA11
3SB35 00-2SA21
3SB35 00-2SA41
3SB35 00-2SA61

1 unit
1 unit
1 unit
1 unit

Illuminated, heavy-duty version (incl. holder for 3 elements)

Amber
Red
Yellow
Green
Blue
Clear

3SB35 01-2SA01
3SB35 01-2SA21
3SB35 01-2SA31
3SB35 01-2SA41
3SB35 01-2SA51
3SB35 01-2SA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

Non-illuminated, long handle, heavy-duty version

Black
Red
Green
White

3SB35 00-3SA11
3SB35 00-3SA21
3SB35 00-3SA41
3SB35 00-3SA61

1 unit
1 unit
1 unit
1 unit

Illuminated long handle, heavy-duty version (incl. holder for 3 elements)

Amber
Red
Yellow
Green
Blue
Clear

3SB35 01-3SA01
3SB35 01-3SA21
3SB35 01-3SA31
3SB35 01-3SA41
3SB35 01-3SA51
3SB35 01-3SA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

Switching sequence I-O-II, 2 x 50° operating angle, momentary, spring return from the left and right



Non-illuminated, standard version¹⁾

Black
Red
Green
White

3SB35 00-2EA11
3SB35 00-2EA21
3SB35 00-2EA41
3SB35 00-2EA61

1 unit
1 unit
1 unit
1 unit

Non-illuminated, with solvent-resistant short handle¹⁾

Black
Red
Green

3SB35 00-2EA11-0PA0
3SB35 00-2EA21-0PA0
3SB35 00-2EA41-0PA0

1 unit
1 unit
1 unit

Illuminated, standard version¹⁾ (incl. holder for 3 elements)

Amber
Red
Yellow
Green
Blue
Clear

3SB35 01-2EA01
3SB35 01-2EA21
3SB35 01-2EA31
3SB35 01-2EA41
3SB35 01-2EA51
3SB35 01-2EA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

Illuminated, with solvent-resistant short handle¹⁾ (incl. holder for 3 elements)

Red
Green
Blue
Clear

3SB35 01-2EA21-0PA0
3SB35 01-2EA41-0PA0
3SB35 01-2EA51-0PA0
3SB35 01-2EA71-0PA0

1 unit
1 unit
1 unit
1 unit

Non-illuminated, heavy-duty version

Black
Red
Green
White

3SB35 00-2TA11
3SB35 00-2TA21
3SB35 00-2TA41
3SB35 00-2TA61

1 unit
1 unit
1 unit
1 unit

Illuminated, heavy-duty version (incl. holder for 3 elements)

Amber
Red
Yellow
Green
Blue
Clear

3SB35 01-2TA01
3SB35 01-2TA21
3SB35 01-2TA31
3SB35 01-2TA41
3SB35 01-2TA51
3SB35 01-2TA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

Non-illuminated, long handle, heavy-duty version

Black
Red
Green
White

3SB35 00-3TA11
3SB35 00-3TA21
3SB35 00-3TA41
3SB35 00-3TA61

1 unit
1 unit
1 unit
1 unit

Illuminated long handle, heavy-duty version (incl. holder for 3 elements)

Amber
Red
Yellow
Green
Blue
Clear

3SB35 01-3TA01
3SB35 01-3TA21
3SB35 01-3TA31
3SB35 01-3TA41
3SB35 01-3TA51
3SB35 01-3TA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Actuators and Indicators

Version	Version Illumination	Color of handle	DT	Configurator	PS
				Order No.	
Selector switches with holders					
Selector switches with 3 switch positions (cont)					
 Selector switch, 3 switch positions, standard version	Switching sequence I-O-II, 2 x 50° operating angle, momentary to the left, spring return from the left, maintained to the right 	Non-illuminated, standard version ¹⁾	Black	3SB35 00-2GA11	1 unit
			Red	3SB35 00-2GA21	1 unit
			Green	3SB35 00-2GA41	1 unit
			White	3SB35 00-2GA61	1 unit
 Selector switch, 3 switch positions, heavy-duty version		Illuminated, standard version ¹⁾ (incl. holder for 3 elements)	Amber	3SB35 01-2GA01	1 unit
			Red	3SB35 01-2GA21	1 unit
			Yellow	3SB35 01-2GA31	1 unit
			Green	3SB35 01-2GA41	1 unit
 Selector switch, 3 switch positions, long handle			Blue	3SB35 01-2GA51	1 unit
			Clear	3SB35 01-2GA71	1 unit
		Non-illuminated, heavy-duty version	Black	3SB35 00-2VA11	1 unit
			Red	3SB35 00-2VA21	1 unit
 Selector switch, 3 switch positions, heavy-duty version			Green	3SB35 00-2VA41	1 unit
			White	3SB35 00-2VA61	1 unit
		Illuminated, heavy-duty version	Amber	3SB35 01-2VA01	1 unit
			Red	3SB35 01-2VA21	1 unit
 Selector switch, 3 switch positions, long handle			Yellow	3SB35 01-2VA31	1 unit
			Green	3SB35 01-2VA41	1 unit
			Blue	3SB35 01-2VA51	1 unit
			Clear	3SB35 01-2VA71	1 unit
 Selector switch, 3 switch positions, long handle		Non-illuminated, heavy-duty version	Black	3SB35 00-3VA11	1 unit
			Red	3SB35 00-3VA21	1 unit
			Green	3SB35 00-3VA41	1 unit
			White	3SB35 00-3VA61	1 unit
 Selector switch, 3 switch positions, long handle		Illuminated, long handle, heavy-duty version	Amber	3SB35 01-3UA01	1 unit
			Red	3SB35 01-3UA21	1 unit
			Yellow	3SB35 01-3UA31	1 unit
			Green	3SB35 01-3UA41	1 unit
 Selector switch, 3 switch positions, long handle			Blue	3SB35 01-3UA51	1 unit
			Clear	3SB35 01-3UA71	1 unit
 Selector switch, 3 switch positions, long handle		Non-illuminated, standard version ¹⁾	Black	3SB35 00-2FA11	1 unit
			Red	3SB35 00-2FA21	1 unit
			Green	3SB35 00-2FA41	1 unit
			White	3SB35 00-2FA61	1 unit
 Selector switch, 3 switch positions, long handle		Illuminated, standard version ¹⁾ (incl. holder for 3 elements)	Amber	3SB35 01-2FA01	1 unit
			Red	3SB35 01-2FA21	1 unit
			Yellow	3SB35 01-2FA31	1 unit
			Green	3SB35 01-2FA41	1 unit
 Selector switch, 3 switch positions, long handle			Blue	3SB35 01-2FA51	1 unit
			Clear	3SB35 01-2FA71	1 unit
 Selector switch, 3 switch positions, long handle		Non-illuminated, heavy-duty version	Black	3SB35 00-2UA11	1 unit
			Red	3SB35 00-2UA21	1 unit
			Green	3SB35 00-2UA41	1 unit
			White	3SB35 00-2UA61	1 unit
 Selector switch, 3 switch positions, long handle		Illuminated, heavy-duty version	Amber	3SB35 01-2UA01	1 unit
			Red	3SB35 01-2UA21	1 unit
			Yellow	3SB35 01-2UA31	1 unit
			Green	3SB35 01-2UA41	1 unit
 Selector switch, 3 switch positions, long handle			Blue	3SB35 01-2UA51	1 unit
			Clear	3SB35 01-2UA71	1 unit
 Selector switch, 3 switch positions, long handle		Non-illuminated, long handle	Black	3SB35 00-3UA11	1 unit
			Red	3SB35 00-3UA21	1 unit
			Green	3SB35 00-3UA41	1 unit
			White	3SB35 00-3UA61	1 unit
 Selector switch, 3 switch positions, long handle		Illuminated, long handle, heavy-duty version (incl. holder for 3 elements)	Amber	3SB35 01-3UA01	1 unit
			Red	3SB35 01-3UA21	1 unit
			Yellow	3SB35 01-3UA31	1 unit
			Green	3SB35 01-3UA41	1 unit
 Selector switch, 3 switch positions, long handle			Blue	3SB35 01-3UA51	1 unit
			Clear	3SB35 01-3UA71	1 unit

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Actuators and Indicators

Version	Lock version		DT	Configurator 	PS
	Type	Lock No./color			
				Order No.	

Key-operated switches with holder¹⁾

Key-operated switches with 2 keys, 2 switch positions

Switching sequence O-I,
50° operating angle,
maintained



RONIS key-operated switch



CES key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Switching sequence O-I,
50° operating angle,
momentary, spring return
from the right



RONIS	SB 30	O+I O I	3SB35 00-4AD11 3SB35 00-4AD01 3SB35 00-4AD21	1 unit 1 unit 1 unit
CES	SSG 10	O+I O I	3SB35 00-4LD11 3SB35 00-4LD01 3SB35 00-4LD21	1 unit 1 unit 1 unit
	LSG 1	O+I O	3SB35 00-4LF01 3SB35 00-4LF11	1 unit 1 unit
BKS	S1	O+I O I	3SB35 00-5AD11 3SB35 00-5AD01 3SB35 00-5AD21	1 unit 1 unit 1 unit
O.M.R. ²⁾	73038 Light blue	O+I O I	3SB35 00-3AG11 3SB35 00-3AG01 3SB35 00-3AG21	1 unit 1 unit 1 unit
	73037 Red	O+I O I	3SB35 00-3AH11 3SB35 00-3AH01 3SB35 00-3AH21	1 unit 1 unit 1 unit
	73034 Black	O+I O I	3SB35 00-3AJ11 3SB35 00-3AJ01 3SB35 00-3AJ21	1 unit 1 unit 1 unit
	73033 Yellow	O+I O I	3SB35 00-3AK11 3SB35 00-3AK01 3SB35 00-3AK21	1 unit 1 unit 1 unit
RONIS	SB 30	O	3SB35 00-4BD01	1 unit
CES	SSG 10	O	3SB35 00-4MD01	1 unit
	LSG 1	O	3SB35 00-4MF11	1 unit
BKS	S1	O	3SB35 00-5BD01	1 unit
O.M.R. ²⁾	73038 Light blue	O	3SB35 00-3BG01	1 unit
	73037 Red	O	3SB35 00-3BH01	1 unit
	73034 Black	O	3SB35 00-3BJ01	1 unit
	73033 Yellow	O	3SB35 00-3BK01	1 unit

 For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "**B01**". Price reduction on request.

²⁾ According to FIAT standards; also available for other users.

For BKS and CES special locks see page 10/69

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

• Revised •
11/15/14

Actuators and Indicators

Version	Lock version			DT	Configurator 	PS
	Type	Lock No./color	Key removal position			
Order No.						

Key-operated switches with holder¹⁾



RONIS key-operated switch



CES key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Key-operated switches with 2 keys, 3 switch positions

Switching sequence I-O-II,
2 x 50° operating angle,
maintained



RONIS	SB 30	I+O+II O I+II I II O+I	3SB35 00-4DD11	1 unit
			3SB35 00-4DD01	1 unit
			3SB35 00-4DD41	1 unit
			3SB35 00-4DD21	1 unit
			3SB35 00-4DD31	1 unit
			3SB35 00-4DD51	1 unit

CES	SSG 10	O+I+II O I+II I II	3SB35 00-4PD11	1 unit
			3SB35 00-4PD01	1 unit
			3SB35 00-4PD41	1 unit
			3SB35 00-4PD21	1 unit
			3SB35 00-4PD31	1 unit

BKS	S1	O O+I+II I II I+II	3SB35 00-5DD01	1 unit
			3SB35 00-5DD11	1 unit
			3SB35 00-5DD21	1 unit
			3SB35 00-5DD31	1 unit
			3SB35 00-5DD41	1 unit

O.M.R. ²⁾	73038	Light blue	3SB35 00-3DG11	1 unit
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73037	Light blue	I+O+II	3SB35 00-3DH11	1 unit
		O	3SB35 00-3DG01	1 unit

73034	Black	I+O+II	3SB35 00-3DJ11	1 unit
		O	3SB35 00-3DJ01	1 unit

RONIS	SB 30	O	3SB35 00-4ED01	1 unit
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CES	SSG 10	O	3SB35 00-4QD01	1 unit
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BKS	S1	O	3SB35 00-5ED01	1 unit
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O.M.R.	73034	Black	3SB35 00-3EJ01	1 unit
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Switching sequence I-O-II,
2 x 50° operating angle,
momentary, spring return from
the left and right



RONIS	SB 30	O + II O II	3SB35 00-4GD61	1 unit
			3SB35 00-4GD01	1 unit
			3SB35 00-4GD31	1 unit

CES	SSG 10	O + II O II	3SB35 00-4SD61	1 unit
			3SB35 00-4SD01	1 unit
			3SB35 00-4SD31	1 unit

BKS	S1	O + II O II	3SB35 00-5GD61	1 unit
			3SB35 00-5GD01	1 unit
			3SB35 00-5GD31	1 unit

O.M.R.	73033	Yellow	3SB35 00-3GK31	1 unit
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73034	Black	II	3SB35 00-3GJ31	1 unit
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Switching sequence I-O-II,
2 x 50° operating angle,
maintained to the left,
momentary to the right,
spring return from the right



RONIS	SB 30	O+I O I	3SB35 00-4FD51	1 unit
			3SB35 00-4FD01	1 unit
			3SB35 00-4FD21	1 unit

CES	SSG 10	O+I O I	3SB35 00-4RD51	1 unit
			3SB35 00-4RD01	1 unit
			3SB35 00-4RD21	1 unit

BKS	S1	O+I O I	3SB35 00-5FD51	1 unit
			3SB35 00-5FD01	1 unit
			3SB35 00-5FD21	1 unit

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

²⁾ According to FIAT standards; also available for other users.

For BKS and CES special locks see page 10/69

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Actuators and Indicators

1

2

3

4

5

6

7

8

9

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Version	Color of handle	Approval	DT	Configurator	PS
				Order No.	

EMERGENCY-STOP devices according to ISO 13850 and IEC 60947-5-5, with holder¹⁾²⁾. Can also be used with 3TK28 safety relays.



Mushroom diameter 32 mm

EMERGENCY-STOP mushroom push buttons, Ø 32 mm,
with positive latching according to ISO 13850,
with rotate-to-unlatch mechanism

- Standard version
- Solvent-resistant



3SB35 00-1FA20
3SB35 00-1FA20-0PA0

1 unit
1 unit



Mushroom diameter 40 mm,
with rotate-to-unlatch
mechanism, with switch position
indication

EMERGENCY-STOP mushroom push buttons, Ø 40 mm,
with positive latching according to ISO 13850,
with rotate-to-unlatch mechanism

- Without switch position indicator
- Without switch position indicator, solvent-resistant
- With mechanical switch position indication

Red



3SB35 00-1HA20
3SB35 00-1HA20-0PA0
3SB35 00-1HA26

1 unit
1 unit
1 unit



Mushroom diameter 40 mm,
pull-to-unlatch mechanism

EMERGENCY-STOP mushroom push buttons, Ø 40 mm,
with positive latching according to ISO 13850,
with pull-to-unlatch mechanism

Red



3SB35 00-1TA20

1 unit



Mushroom diameter 60 mm

EMERGENCY-STOP mushroom push buttons, Ø 60 mm,
with positive latching according to ISO 13850, with rotate-to-unlatch mechanism

Red



3SB35 00-1AA20

1 unit



Mushroom diameter 40 mm

EMERGENCY-STOP mushroom push buttons, Ø 40 mm with positive latching function with IKON lock
Lock No. 360012K1, supplied with 2 keys,
unlocking only possible using key

Red



3SB35 00-1UA20

1 unit



Mushroom diameter 40 mm,
with RONIS key-operated switch

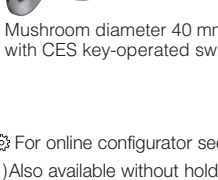
EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with RONIS key-operated switch
(with 2 keys), lock No. SB 30, with positive latching according to ISO 13850,
unlocking only possible using key

Red



3SB35 00-1BA20

1 unit



Mushroom diameter 40 mm,
with CES key-operated switch

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with CES key-operated switch,
(with 2 keys), lock No. SSG 10, with positive latching according to ISO 13850,
unlocking only possible using key

Red



3SB35 00-1KA20

1 unit

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with BKS key-operated switch,
(with 2 keys), lock No. S1, with positive latching according to ISO 13850,
unlocking only possible using key

Red



3SB35 00-1LA20

1 unit

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with O.M.R. key-operated switch
(with 2 keys), lock No. 73037, with positive latching according to ISO 13850,
unlocking only using key

Red



3SB35 00-1MA20

1 unit

Wobble Stick

3SB35 00-7CB61

For online configurator see www.siemens.com/sirius/configurators

1)Also available without holder. Supplement Order No. with “-Z” and quote order code “B01”. Price reduction on request.

2)Yellow backing plates must be ordered separately;
see “Accessories” on page 10/84.

For BKS and CES special locks see page 10/69

Push Button Units and Indicator Lights

3SB3, Metal, Round, 22 mm

Actuators and Indicators

	Version	Color of lens	DT	Configurator		PS
				Order No.		
 Indicator light with smooth lens	Signaling elements with holder ¹⁾					
	Indicator lights with lens with concentric rings ²⁾	Amber		3SB35 01-6BA00		1 unit
		Red		3SB35 01-6BA20		1 unit
		Yellow		3SB35 01-6BA30		1 unit
		Green		3SB35 01-6BA40		1 unit
		Blue		3SB35 01-6BA50		1 unit
		White		3SB35 01-6BA60		1 unit
		Clear		3SB35 01-6BA70		1 unit
	Indicator lights with smooth lens ²⁾	Amber		3SB35 01-6AA00		1 unit
		Red		3SB35 01-6AA20		1 unit
		Yellow		3SB35 01-6AA30		1 unit
		Green		3SB35 01-6AA40		1 unit
		Blue		3SB35 01-6AA50		1 unit
		White		3SB35 01-6AA60		1 unit
		Clear		3SB35 01-6AA70		1 unit
	Indicator lights with smooth solvent-resistant lens ²⁾³⁾	Red		3SB35 01-6AA20-0PA0		1 unit
		Yellow		3SB35 01-6AA30-0PA0		1 unit
		Green		3SB35 01-6AA40-0PA0		1 unit
		Blue		3SB35 01-6AA50-0PA0		1 unit
		White		3SB35 01-6AA60-0PA0		1 unit
Clear			3SB35 01-6AA70-0PA0		1 unit	

 For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "**B01**". Price reduction on request.

²⁾ Inscription by inserting a label is not possible.

³⁾ Not suitable for laser inscription.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Complete units

1
2
3
4
5
6
7
8
9
10

Selection and ordering data

Rated voltage of lamp	Color of handle	Contacts for front plate mounting	DT	Screw terminals	DT	Spring-type terminals
				Configurator		Configurator
V				Order No.		Order No.

Push buttons

Push buttons with flat button



Push button with flat button

—	Black	1 NO	3SB32 02-0AA11	3SB32 02-0AA11-0CC0
	Black	1 NC	3SB32 03-0AA11	3SB32 03-0AA11-0CC0
	Red	1 NC	3SB32 03-0AA21	3SB32 03-0AA21-0CC0
	Yellow	1 NO	3SB32 02-0AA31	3SB32 02-0AA31-0CC0
	Green	1 NO	3SB32 02-0AA41	3SB32 02-0AA41-0CC0
	Blue	1 NO	3SB32 02-0AA51	3SB32 02-0AA51-0CC0
	White	1 NO	3SB32 02-0AA61	3SB32 02-0AA61-0CC0
	Black	1 NO + 1 NC	3SB32 01-0AA11	3SB32 01-0AA11-0CC0
	Red	1 NO + 1 NC	3SB32 01-0AA21	3SB32 01-0AA21-0CC0
	Yellow	1 NO + 1 NC	3SB32 01-0AA31	3SB32 01-0AA31-0CC0
	Green	1 NO + 1 NC	3SB32 01-0AA41	3SB32 01-0AA41-0CC0
	Blue	1 NO + 1 NC	3SB32 01-0AA51	3SB32 01-0AA51-0CC0
	White	1 NO + 1 NC	3SB32 01-0AA61	3SB32 01-0AA61-0CC0

Push Button with extended button momentary

	Black	1 NO	3SB3202-0BA11	—
	Black	1 NC	3SB3203-0BA11	—
	Red	1 NC	3SB3203-0BA21	—
	Yellow	1 NO	3SB3202-0BA31	—
	Blue	1 NO	3SB3202-0BA51	—
	White	1 NO	3SB3202-0BA61	—
	Black	1 NO + 1 NC	3SB3201-0BA11	—
	Red	1 NO + 1 NC	3SB3201-0BA21	—
	Yellow	1 NO + 1 NC	3SB3201-0BA31	—
	Blue	1 NO + 1 NC	3SB3201-0BA51	—
	White	1 NO + 1 NC	3SB3201-0BA61	—

Illuminated push buttons with flat button with integrated LED (incl. holder for 3 elements)



Illuminated push button with flat button

24 AC/DC	Red ¹⁾	1 NC	3SB32 46-0AA21	3SB32 46-0AA21-0CC0
	Yellow ¹⁾	1 NO	3SB32 45-0AA31	3SB32 45-0AA31-0CC0
	Green ¹⁾	1 NO	3SB32 45-0AA41	3SB32 45-0AA41-0CC0
	Blue ¹⁾	1 NO	3SB32 45-0AA51	3SB32 45-0AA51-0CC0
	White	1 NO	3SB32 45-0AA61	3SB32 45-0AA61-0CC0
	Clear ¹⁾	1 NO	3SB32 45-0AA71	3SB32 45-0AA71-0CC0
24 AC/DC	Red ¹⁾	1 NO + 1 NC	3SB32 47-0AA21	3SB32 47-0AA21-0CC0
	Yellow ¹⁾	1 NO + 1 NC	3SB32 47-0AA31	3SB32 47-0AA31-0CC0
	Green ¹⁾	1 NO + 1 NC	3SB32 47-0AA41	3SB32 47-0AA41-0CC0
	Blue ¹⁾	1 NO + 1 NC	3SB32 47-0AA51	3SB32 47-0AA51-0CC0
	White	1 NO + 1 NC	3SB32 47-0AA61	3SB32 47-0AA61-0CC0
	Clear ¹⁾	1 NO + 1 NC	3SB32 47-0AA71	3SB32 47-0AA71-0CC0
110 AC	Red ¹⁾	1 NC	3SB32 50-0AA21	—
	Yellow ¹⁾	1 NO	3SB32 57-0AA31	—
	Green ¹⁾	1 NO	3SB32 57-0AA41	—
	Blue ¹⁾	1 NO	3SB32 57-0AA51	—
	White	1 NO	3SB32 57-0AA61	—
	Clear ¹⁾	1 NO	3SB32 57-0AA71	—
110 AC	Red ¹⁾	1 NO + 1 NC	3SB32 51-0AA21	—
	Yellow ¹⁾	1 NO + 1 NC	3SB32 51-0AA31	—
	Green ¹⁾	1 NO + 1 NC	3SB32 51-0AA41	—
	Blue ¹⁾	1 NO + 1 NC	3SB32 51-0AA51	—
	White	1 NO + 1 NC	3SB32 51-0AA61	—
	Clear ¹⁾	1 NO + 1 NC	3SB32 51-0AA71	—
230 AC	Red ¹⁾	1 NC	3SB32 54-0AA21	3SB32 54-0AA21-0CC0
	Yellow ¹⁾	1 NO	3SB32 53-0AA31	3SB32 53-0AA31-0CC0
	Green ¹⁾	1 NO	3SB32 53-0AA41	3SB32 53-0AA41-0CC0
	Blue ¹⁾	1 NO	3SB32 53-0AA51	3SB32 53-0AA51-0CC0
	White	1 NO	3SB32 53-0AA61	3SB32 53-0AA61-0CC0
	Clear ¹⁾	1 NO	3SB32 53-0AA71	3SB32 53-0AA71-0CC0
230 AC	Red ¹⁾	1 NO + 1 NC	3SB32 55-0AA21	3SB32 55-0AA21-0CC0
	Yellow ¹⁾	1 NO + 1 NC	3SB32 55-0AA31	3SB32 55-0AA31-0CC0
	Green ¹⁾	1 NO + 1 NC	3SB32 55-0AA41	3SB32 55-0AA41-0CC0
	Blue ¹⁾	1 NO + 1 NC	3SB32 55-0AA51	3SB32 55-0AA51-0CC0
	White	1 NO + 1 NC	3SB32 55-0AA61	3SB32 55-0AA61-0CC0
	Clear ¹⁾	1 NO + 1 NC	3SB32 55-0AA71	3SB32 55-0AA71-0CC0

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Inscription is possible by inserting a label.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Complete units

Color of handle	Contacts for front plate mounting	DT	Screw terminals	DT	Spring-type terminals
			Configurator		Configurator
			Order No.		Order No.

Push buttons



Illuminated push button with flat button

Illuminated push buttons with flat button
with BA 9s lamp holder, without lamp
(incl. holder for 3 elements)

Red ¹⁾	1 NC
Yellow ¹⁾	1 NO
Green ¹⁾	1 NO
Blue ¹⁾	1 NO
White	1 NO
Clear ¹⁾	1 NO

3SB32 07-0AA21
3SB32 06-0AA31
3SB32 06-0AA41
3SB32 06-0AA51
3SB32 06-0AA61
3SB32 06-0AA71

3SB32 07-0AA21-0CC0
3SB32 06-0AA31-0CC0
3SB32 06-0AA41-0CC0
3SB32 06-0AA51-0CC0
3SB32 06-0AA61-0CC0
3SB32 06-0AA71-0CC0

Red ¹⁾	1 NO + 1 NC
Yellow ¹⁾	1 NO + 1 NC
Green ¹⁾	1 NO + 1 NC
Blue ¹⁾	1 NO + 1 NC
White	1 NO + 1 NC
Clear ¹⁾	1 NO + 1 NC

3SB32 05-0AA21
3SB32 05-0AA31
3SB32 05-0AA41
3SB32 05-0AA51
3SB32 05-0AA61
3SB32 05-0AA71

3SB32 05-0AA21-0CC0
3SB32 05-0AA31-0CC0
3SB32 05-0AA41-0CC0
3SB32 05-0AA51-0CC0
3SB32 05-0AA61-0CC0
3SB32 05-0AA71-0CC0

Illuminated push buttons with flat button
with BA 9s lamp holder with incandescent lamp
24 V AC/DC

Red	1 NC
Red	1 NO + 1 NC
Yellow	1 NO + 1 NC
Green	1 NO + 1 NC
Blue	1 NO + 1 NC
White	1 NO + 1 NC
Clear	1 NO + 1 NC

3SB3213-0AA21
3SB3221-0AA21
3SB3221-0AA31
3SB3221-0AA41
3SB3221-0AA51
3SB3221-0AA61
3SB3221-0AA71

—
—
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Illuminated push buttons with flat button
with BA 9s lamp holder with incandescent lamp
230 V AC/DC

Red	1 NC
Yellow	1 NO
Green	1 NO
Blue	1 NO
White	1 NO
Clear	1 NO

3SB3216-0AA21
3SB3214-0AA31
3SB3214-0AA41
3SB3214-0AA51
3SB3214-0AA61
3SB3214-0AA71

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Red	1 NO + 1 NC
Yellow	1 NO + 1 NC
Green	1 NO + 1 NC
Blue	1 NO + 1 NC
White	1 NO + 1 NC
Clear	1 NO + 1 NC

3SB3213-0AA21
3SB3213-0AA31
3SB3213-0AA41
3SB3213-0AA51
3SB3213-0AA61
3SB3213-0AA71

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Mushroom push buttons



Mushroom push-pull button

Mushroom push-pull buttons, Ø 40 mm, maintained,
with pull-to-unlatch mechanism

Red	1 NC
	1 NO + 1 NC

3SB32 03-1CA21
3SB32 01-1CA21

3SB32 03-1CA21-0CC0
3SB32 01-1CA21-0CC0

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Inscription is possible by inserting a label.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Complete units

Version	Color of handle/ Lock No.	Contacts for front plate mounting	DT	Screw terminals	DT	Spring-type terminals
				Configurator		Configurator
				Order No.		Order No.

Selector switches



Selector switch

Selector switches, 2 switch positions

Switching sequence O-I, 50° operating angle

Latching	Black	1 NO
		1 NO + 1 NC



3SB32 02-2KA11
3SB32 01-2KA11

3SB32 02-2KA11-0CC0
3SB32 01-2KA11-0CC0

Selector switches, 2 switch positions

Switching sequence O-I, 90° operating angle

Latching	Black	1 NO
		1 NO + 1 NC



3SB32 02-2HA11
3SB32 01-2HA11

—
—

Selector switches, 3 switch positions

switching sequence I-O-II, 2 x 50° operating angle

Latching	Black	1 NO, 1 NO
		1 NO + 1 NC, 1 NO + 1 NC



3SB32 10-2DA11
3SB32 08-2DA11

3SB32 10-2DA11-0CC0
3SB32 08-2DA11-0CC0

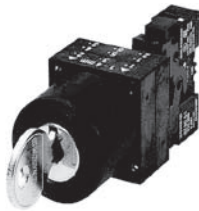
Momentary, spring return from left and right	Black	1 NO, 1 NO
		1 NO + 1 NC, 1 NO + 1 NC



3SB32 10-2EA11
3SB32 08-2EA11

3SB32 10-2EA11-0CC0
3SB32 08-2EA11-0CC0

Key-operated switches



RONIS key-operated switch

RONIS key-operated switches, 2 switch positions

with 2 keys, removal position O + I, switching sequence O-I, 50° operating angle

Latching	SB 30	1 NO
		1 NO + 1 NC



3SB32 02-4AD11
3SB32 01-4AD11

3SB32 02-4AD11-0CC0
3SB32 01-4AD11-0CC0

Switching sequence I-O-II, maintained, operating angle 2 x 50°

Latching	SB 30	1 NO, 1 NO
		1 NO + 1 NC, 1 NO + 1 NC



3SB32 10-4DD11
3SB32 08-4DD11

—
—

Twin push buttons



Twin push button with flat buttons

Twin push buttons, with flat, square buttons¹⁾

With I/O inscription	White/White	1 NO + 1 NC, 1 NO + 1 NC
----------------------	-------------	-----------------------------

3SB31 00-8AC61

—

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Mounting the twin push buttons in 3SB38 enclosure is not possible.
For accessories see page 10/55.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Complete units

Color of handle	Contacts for front plate mounting	DT	Screw terminals 	DT	Spring-type terminals 
			Configurator 		Configurator 
			Order No.		Order No.

EMERGENCY-STOP devices according to ISO 13850, with yellow name plate, Ø 80 mm, with inscription

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with positive maintained function, with rotate-to-unlatch mechanism					
English inscription "EMERGENCY STOP"					
 With rotate-to-unlatch mechanism	Red	1 NC		3SB32 03-1HR20	—
		1 NC with mounting monitoring		3SB32 66-1HR20	—
	Red	1 NO + 1 NC		3SB32 01-1HR20	—
With rotate-to-unlatch mechanism and mechanical switch position indication					
English inscription "EMERGENCY STOP"					
 With rotate-to-unlatch mechanism and switch position indication	Red	1 NC		3SB32 03-1HR26	—
		1 NC with mounting monitoring		3SB32 66-1HR26	—
	Red	1 NO + 1 NC		3SB32 01-1HR26	—
With pull-to-unlatch mechanism					
English inscription "EMERGENCY STOP"					
 With pull-to-unlatch mechanism	Red	1 NC		3SB32 03-1TR20	—
	Red	1 NO + 1 NC		3SB32 01-1TR20	—

For online configurator see www.siemens.com/sirius/configurators.

Positive opening according to IEC 60947-5-1, Appendix K.

Can be used with 3TK28 safety relays.

Certificate:



Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Complete units

Rated voltage of lamp	Color of lens	DT	Screw terminals	DT	Spring-type terminals
			Configurator		Configurator
			Order No.		Order No.

Indicator lights



Indicator light with smooth lens

Indicator lights with smooth lens¹⁾ with integrated LED

24 AC/DC	Red Yellow Green Blue White Clear	3SB32 44-6AA20 3SB32 44-6AA30 3SB32 44-6AA40 3SB32 44-6AA50 3SB32 44-6AA60 3SB32 44-6AA70	3SB32 44-6AA20-0CC0 3SB32 44-6AA30-0CC0 3SB32 44-6AA40-0CC0 3SB32 44-6AA50-0CC0 3SB32 44-6AA60-0CC0 3SB32 44-6AA70-0CC0
110 AC	Red Yellow Green Blue White Clear	3SB32 48-6AA20 3SB32 48-6AA30 3SB32 48-6AA40 3SB32 48-6AA50 3SB32 48-6AA60 3SB32 48-6AA70	— — — — — —
230 AC	Red Yellow Green Blue White Clear	3SB32 52-6AA20 3SB32 52-6AA30 3SB32 52-6AA40 3SB32 52-6AA50 3SB32 52-6AA60 3SB32 52-6AA70	3SB32 52-6AA20-0CC0 3SB32 52-6AA30-0CC0 3SB32 52-6AA40-0CC0 3SB32 52-6AA50-0CC0 3SB32 52-6AA60-0CC0 3SB32 52-6AA70-0CC0
With BA 9s lamp holder, without lamp	Red Yellow Green Blue White Clear	3SB32 04-6AA20 3SB32 04-6AA30 3SB32 04-6AA40 3SB32 04-6AA50 3SB32 04-6AA60 3SB32 04-6AA70	3SB32 04-6AA20-0CC0 3SB32 04-6AA30-0CC0 3SB32 04-6AA40-0CC0 3SB32 04-6AA50-0CC0 3SB32 04-6AA60-0CC0 3SB32 04-6AA70-0CC0
With BA 9s lamp holder with lamp (130 V) 24 V AC/DC	Red Yellow Green Blue White Clear	3SB32 17-6AA20 3SB32 17-6AA30 3SB32 17-6AA40 3SB32 17-6AA50 3SB32 17-6AA60 3SB32 17-6AA70	— — — — — —
With BA 9s lamp holder with lamp (130 V) 230 V AC/DC	Red Yellow Green Blue White Clear	3SB32 12-6AA20 3SB32 12-6AA30 3SB32 12-6AA40 3SB32 12-6AA50 3SB32 12-6AA60 3SB32 12-6AA70	3SB32 12-6AA20-0CC0 3SB32 12-6AA30-0CC0 3SB32 12-6AA40-0CC0 3SB32 12-6AA50-0CC0 3SB32 12-6AA60-0CC0 3SB32 12-6AA70-0CC0

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Inscription by inserting a label is not possible.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

• Revised •
11/15/14

Complete units

Rated voltage of lamp	Color of lens	DT	Screw terminals	DT	Spring-type terminals
			Configurator		Configurator
			Order No.		Order No.

Indicator lights



Indicator light with lens with concentric rings

Indicator lights with lens with concentric rings ¹⁾ with integrated LED			
24 AC/DC	Red Yellow Green Blue White Clear	3SB32 44-6BA20 3SB32 44-6BA30 3SB32 44-6BA40 3SB32 44-6BA50 3SB32 44-6BA60 3SB32 44-6BA70	3SB32 44-6BA20-0CC0 3SB32 44-6BA30-0CC0 3SB32 44-6BA40-0CC0 3SB32 44-6BA50-0CC0 3SB32 44-6BA60-0CC0 3SB32 44-6BA70-0CC0
110 AC	Red Yellow Green Blue White Clear	3SB32 48-6BA20 3SB32 48-6BA30 3SB32 48-6BA40 3SB32 48-6BA50 3SB32 48-6BA60 3SB32 48-6BA70	— — — — — —
230 AC	Red Yellow Green Blue White Clear	3SB32 52-6BA20 3SB32 52-6BA30 3SB32 52-6BA40 3SB32 52-6BA50 3SB32 52-6BA60 3SB32 52-6BA70	3SB32 52-6BA20-0CC0 3SB32 52-6BA30-0CC0 3SB32 52-6BA40-0CC0 3SB32 52-6BA50-0CC0 3SB32 52-6BA60-0CC0 3SB32 52-6BA70-0CC0
With BA 9s lamp holder, without lamp			
	Amber Red Yellow Green Blue White Clear	3SB32 04-6BA00 3SB32 04-6BA20 3SB32 04-6BA30 3SB32 04-6BA40 3SB32 04-6BA50 3SB32 04-6BA60 3SB32 04-6BA70	— 3SB32 04-6BA20-0CC0 3SB32 04-6BA30-0CC0 3SB32 04-6BA40-0CC0 3SB32 04-6BA50-0CC0 3SB32 04-6BA60-0CC0 3SB32 04-6BA70-0CC0
With BA 9s lamp holder, with LED			
130 AC	Amber Red Yellow Green Blue White Clear	3SB32 40-6BA00 3SB32 40-6BA20 3SB32 40-6BA30 3SB32 40-6BA40 3SB32 40-6BA50 3SB32 40-6BA60 3SB32 40-6BA70	— — — — — — —
With BA 9s lamp holder with LED lamp			
24 V AC/DC	Red Yellow Green Blue White Clear	3SB32 36-6BA20 3SB32 36-6BA30 3SB32 36-6BA40 3SB32 36-6BA50 3SB32 36-6BA60 3SB32 36-6BA70	— — — — — —
With integrated LED			
230 AC	Red Yellow Green Blue White Clear	3SB32 52-6BA20 3SB32 52-6BA30 3SB32 52-6BA40 3SB32 52-6BA50 3SB32 52-6BA60 3SB32 52-6BA70	3SB32 52-6BA20-0CC0 3SB32 52-6BA30-0CC0 3SB32 52-6BA40-0CC0 3SB32 52-6BA50-0CC0 3SB32 52-6BA60-0CC0 3SB32 52-6BA70-0CC0

For online configurator see www.siemens.com/sirius/configurators

¹⁾ Inscription by inserting a label is not possible.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Complete units

1

2

3

4

5

6

7

8

9

10

Version	Rated voltage of lamp	Color of lens	DT	Screw terminals	PS
				Configurator	
				Order No.	

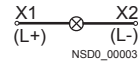
Signaling devices



Acoustic signaling device

Acoustic signaling devices, IP65¹⁾

Continuous tone 2.4 kHz,
operational current min. 4 mA,
sound pressure
min. 80 dB/10 cm



NSD0_00003

Black

3SB32 33-7BA10
3SB32 34-7BA10
3SB32 35-7BA10

1 unit
1 unit
1 unit

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Mounting in 3SB38 enclosures only with the 3SB3400-1A lamp holder for front plate mounting, which is included.

Version	Degree of protection	Color of handle	DT	Without connection	PS
				Order No.	

Special devices



Potentiometer drive

Actuators for potentiometers²⁾³⁾

With shaft Ø 6 mm,
30 ... 32 mm long

IP65

—

3SB10 00-7CH07

1 unit

Push buttons with extended stroke²⁾ for actuating relays

12 mm stroke

IP65

Black

3SB30 00-0EA11

1 unit



Push buttons with
12 mm stroke

Mechanical Reset¹⁾

Overload reset adapter
Reset Push Button IP65 Ø 22mm,
12 mm stroke
Reset extension
Complete assembly

S00 to
S10/S12

S10/S12

—

3RU19 00-1A

1 unit

3SX1335

1 unit

3SBES-RESET

1 unit

²⁾ Mounting in 3SB38 enclosure is not possible.

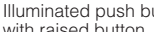
³⁾ The potentiometer is not included in the scope of supply.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Actuators and Indicators

Selection and ordering data

Version	Inscriptions	Color of handle	DT	Configurator	PS		
				Order No.			
Push buttons with holder ¹⁾							
 With flat button	Push buttons with flat button	Black		3SB30 00-0AA11	1 unit		
		Red		3SB30 00-0AA21	1 unit		
		Yellow		3SB30 00-0AA31	1 unit		
		Green		3SB30 00-0AA41	1 unit		
		Blue		3SB30 00-0AA51	1 unit		
		White		3SB30 00-0AA61	1 unit		
		Gray		3SB30 00-0AB51	1 unit		
		Clear ²⁾		3SB30 00-0AA71	1 unit		
		I	Green	3SB30 00-0AA81	1 unit		
		O	Red	3SB30 00-0AB01	1 unit		
 With raised button	Push buttons with raised button	I	White	3SB30 00-0AB11	1 unit		
		O	Black	3SB30 00-0AB21	1 unit		
		R	Blue	3SB30 00-0AC81	1 unit		
		Down	Black	3SB30 00-0AA11-ZEE	1 unit		
		Up	Black	3SB30 00-0AA11-ZED			
		Forward	Black	3SB30 00-0AA11-ZEF			
		Reverse	Black	3SB30 00-0AA11-ZEG			
		On	Green	3SB30 00-0AA11-ZEB			
		Start	Red	3SB30 00-0AA11-ZEL			
		Reset	Blue	3SB30 00-0AA11-ZEM			
 With raised button, maintained	Push buttons with raised button, maintained by pressing in and turning to the right, unlatches by turning to the left	Black		3SB30 00-0BA11	1 unit		
		Red		3SB30 00-0BA21	1 unit		
		Yellow		3SB30 00-0BA31	1 unit		
		Green		3SB30 00-0BA41	1 unit		
		Blue		3SB30 00-0BA51	1 unit		
		White		3SB30 00-0BA61	1 unit		
		Off	Red	3SB30 00-0BA21-ZEC	1 unit		
		Stop	Red	3SB30 00-0BA21-ZEK			
		 With raised button, maintained	Push buttons with raised front ring (height 13 mm)	Black		3SB30 00-0AA12	1 unit
Red				3SB30 00-0AA22	1 unit		
Yellow				3SB30 00-0AA32	1 unit		
Green				3SB30 00-0AA42	1 unit		
Blue				3SB30 00-0AA52	1 unit		
White				3SB30 00-0AA62	1 unit		
 With raised front ring, castellated	Push buttons with raised front ring, castellated (height 13 mm)			Black		3SB30 00-0AA13	1 unit
				Red		3SB30 00-0AA23	1 unit
				Yellow		3SB30 00-0AA33	1 unit
				Green		3SB30 00-0AA43	1 unit
		Blue		3SB30 00-0AA53	1 unit		
		White		3SB30 00-0AA63	1 unit		
		 With raised front ring	Illuminated push buttons with flat button (incl. holder for 3 elements)	Amber ²⁾		3SB30 01-0AA01	1 unit
				Red ²⁾		3SB30 01-0AA21	1 unit
				Yellow ²⁾		3SB30 01-0AA31	1 unit
				Green ²⁾		3SB30 01-0AA41	1 unit
Blue ²⁾				3SB30 01-0AA51	1 unit		
White				3SB30 01-0AA61	1 unit		
Clear ²⁾				3SB30 01-0AA71	1 unit		
 Illuminated push button with raised button	Illuminated push buttons with raised button (incl. holder for 3 elements)			Red		3SB30 01-0BA21	1 unit
				Yellow		3SB30 01-0BA31	1 unit
				Green		3SB30 01-0BA41	1 unit
		Blue		3SB30 01-0BA51	1 unit		
		Clear		3SB30 01-0BA71	1 unit		
		 With raised front ring, castellated	Push buttons with flat button, maintained, unlatches by pressing again	Black		3SB30 00-0DA11	1 unit
				Red		3SB30 00-0DA21	1 unit
				Yellow		3SB30 00-0DA31	1 unit
				Green		3SB30 00-0DA41	1 unit
				Blue		3SB30 00-0DA51	1 unit
White				3SB30 00-0DA61	1 unit		
Gray				3SB30 00-0DB51	1 unit		
 Illuminated push button with raised button	Illuminated push buttons with flat button, maintained, unlatches by pressing again (incl. holder for 3 elements)			Red ²⁾		3SB30 01-0DA21	1 unit
				Yellow ²⁾		3SB30 01-0DA31	1 unit
				Green ²⁾		3SB30 01-0DA41	1 unit
		Blue ²⁾		3SB30 01-0DA51	1 unit		
		White		3SB30 01-0DA61	1 unit		
		Clear ²⁾		3SB30 01-0DA71	1 unit		

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

²⁾ Inscription is possible by inserting a label.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Actuators and Indicators

Mushroom push buttons with holder¹⁾²⁾



Mushroom push buttons, Ø 30 mm

Black
Red
Yellow
Green

3SB30 00-1DA11
3SB30 00-1DA21
3SB30 00-1DA31
3SB30 00-1DA41

1 unit
1 unit
1 unit
1 unit



Mushroom push buttons, Ø 40 mm

Black
Red
Yellow
Green

3SB30 00-1GA11
3SB30 00-1GA21
3SB30 00-1GA31
3SB30 00-1GA41

1 unit
1 unit
1 unit
1 unit



Mushroom push buttons, Ø 60 mm

Black
Red
Yellow
Green

3SB30 00-1QA11
3SB30 00-1QA21
3SB30 00-1QA31
3SB30 00-1QA41

1 unit
1 unit
1 unit
1 unit



Illuminated mushroom push buttons, Ø 30 mm (incl. holder for 3 elements)

Red
Yellow
Green
Blue
White
Clear

3SB30 01-1DA21
3SB30 01-1DA31
3SB30 01-1DA41
3SB30 01-1DA51
3SB30 01-1DA61
3SB30 01-1DA71

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit



Illuminated mushroom push buttons, Ø 40 mm (incl. holder for 3 elements)

Yellow
Green
White

3SB30 01-1GA31
3SB30 01-1GA41
3SB30 01-1GA61

1 unit
1 unit
1 unit



Push-pull buttons, Ø 30 mm, maintained, pull to unlatch

Black
Red

3SB30 00-1EA11
3SB30 00-1EA21

1 unit
1 unit



Push-pull buttons, Ø 40 mm, maintained, pull to unlatch

Black
Red

3SB30 00-1CA11
3SB30 00-1CA21

1 unit
1 unit



Push-pull buttons, Ø 60 mm, maintained, pull to unlatch

Black
Red

3SB30 00-1RA11
3SB30 00-1RA21

1 unit
1 unit

Push-pull buttons, Ø 30 mm, can be illuminated, maintained, pull to unlatch, (incl. holder for 3 elements)

Red
Yellow
Green
Blue
Clear

3SB30 01-1EA21
3SB30 01-1EA31
3SB30 01-1EA41
3SB30 01-1EA51
3SB30 01-1EA71

1 unit
1 unit
1 unit
1 unit
1 unit

Push-pull buttons, Ø 40 mm, can be illuminated, maintained, pull to unlatch (incl. holder for 3 elements)

Red
Yellow
Green
Blue
Clear

3SB30 01-1CA21
3SB30 01-1CA31
3SB30 01-1CA41
3SB30 01-1CA51
3SB30 01-1CA71

1 unit
1 unit
1 unit
1 unit
1 unit

¹⁾ For online configurator see www.siemens.com/sirius/configurators.

²⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

²⁾ Maximum permissible equipment: 3 single-pole or 2 double-pole contact blocks. When using the 3SB39 01-0AB holder, the central command point must not be empty.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Actuators and Indicators

Version	Version Illumination	Color of handle	DT	Configurator		PS
				Order No.		
holder ¹⁾						
Selector switches with 2 switch positions						
Switching sequence O-I, 90° operating angle, maintained 	Non-illuminated	Black Red Green White	3SB30 00-2HA11 3SB30 00-2HA21 3SB30 00-2HA41 3SB30 00-2HA61	1 unit 1 unit 1 unit 1 unit		
	Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB30 01-2HA21 3SB30 01-2HA31 3SB30 01-2HA41 3SB30 01-2HA51 3SB30 01-2HA71	1 unit 1 unit 1 unit 1 unit 1 unit		
Switching sequence O-I, 50° operating angle, maintained 	Non-illuminated	Black Red Green White	3SB30 00-2KA11 3SB30 00-2KA21 3SB30 00-2KA41 3SB30 00-2KA61	1 unit 1 unit 1 unit 1 unit		
	Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB30 01-2KA21 3SB30 01-2KA31 3SB30 01-2KA41 3SB30 01-2KA51 3SB30 01-2KA71	1 unit 1 unit 1 unit 1 unit 1 unit		
Switching sequence O-I, 50° operating angle, momentary, spring apart from right 	Non-illuminated	Black Red Green White	3SB30 00-2LA11 3SB30 00-2LA21 3SB30 00-2LA41 3SB30 00-2LA61	1 unit 1 unit 1 unit 1 unit		
	Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB30 01-2LA21 3SB30 01-2LA31 3SB30 01-2LA41 3SB30 01-2LA51 3SB30 01-2LA71	1 unit 1 unit 1 unit 1 unit 1 unit		
Selector switches with 3 switch positions						
Switching sequence I-O-II, 2 x 50° operating angle, maintained 	Non-illuminated	Black Red Green White	3SB30 00-2DA11 3SB30 00-2DA21 3SB30 00-2DA41 3SB30 00-2DA61	1 unit 1 unit 1 unit 1 unit		
	Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB30 01-2DA21 3SB30 01-2DA31 3SB30 01-2DA41 3SB30 01-2DA51 3SB30 01-2DA71	1 unit 1 unit 1 unit 1 unit 1 unit		
Switching sequence I-O-II, 2 x 50° operating angle, momentary, spring return from left and right 	Non-illuminated	Black Red Green White	3SB30 00-2EA11 3SB30 00-2EA21 3SB30 00-2EA41 3SB30 00-2EA61	1 unit 1 unit 1 unit 1 unit		
	Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB30 01-2EA21 3SB30 01-2EA31 3SB30 01-2EA41 3SB30 01-2EA51 3SB30 01-2EA71	1 unit 1 unit 1 unit 1 unit 1 unit		
Switching sequence I-O-II, 2 x 50° operating angle, momentary to the left, spring return to the left, maintained to the right 	Non-illuminated	Black Red Green White	3SB30 00-2GA11 3SB30 00-2GA21 3SB30 00-2GA41 3SB30 00-2GA61	1 unit 1 unit 1 unit 1 unit		
	Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB30 01-2GA21 3SB30 01-2GA31 3SB30 01-2GA41 3SB30 01-2GA51 3SB30 01-2GA71	1 unit 1 unit 1 unit 1 unit 1 unit		
Switching sequence I-O-II, 2 x 50° operating angle, maintained to the left, momentary to the right, spring return from the right 	Non-illuminated	Black Red Green White	3SB30 00-2FA11 3SB30 00-2FA21 3SB30 00-2FA41 3SB30 00-2FA61	1 unit 1 unit 1 unit 1 unit		
	Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB30 01-2FA21 3SB30 01-2FA31 3SB30 01-2FA41 3SB30 01-2FA51 3SB30 01-2FA71	1 unit 1 unit 1 unit 1 unit 1 unit		

 For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with **"-Z"** and quote order code **"B01"**. Price reduction on request.

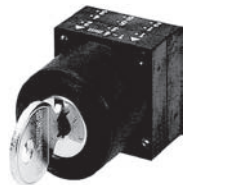
Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Actuators and Indicators

Version	Lock version Type	Lock No./ color	Key removal position	DT	Configurator 	PS
					Order No.	

Key-operated switches with holder¹⁾



RONIS key-operated switch



CES key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Key-operated switches with 2 keys, 2 switch positions

Switching sequence O-I,
50° operating angle,
maintained



Switching sequence O-I,
50° operating angle,
maintained



Switching sequence O-I,
50° operating angle,
momentary, spring return
from the right



RONIS	SB 30	O+I O I	3SB30 00-4HD11 3SB30 00-4HD01 3SB30 00-4HD21	1 unit 1 unit 1 unit
CES	SSG 10	O+I O I	3SB30 00-4LD11 3SB30 00-4LD01 3SB30 00-4LD21	1 unit 1 unit 1 unit
LSG 1		O+I O	3SB30 00-4LF01 3SB30 00-4LF11	1 unit 1 unit
CES with key monitoring ²⁾	SSG 10	O	3SB30 00-4LD05	1 unit
BKS	S1	O+I O I	3SB30 00-5AD11 3SB30 00-5AD01 3SB30 00-5AD21	1 unit 1 unit 1 unit
O.M.R. ³⁾	73038 Light blue	O+I O	3SB30 00-3AG11 3SB30 00-3AG01	1 unit 1 unit
	73037 Red	O+I O	3SB30 00-3AH11 3SB30 00-3AH01	1 unit 1 unit
	73034 Black	O+I O I	3SB30 00-3AJ11 3SB30 00-3AJ01 3SB30 00-3AJ21	1 unit 1 unit 1 unit
	73033 Yellow	O+I O	3SB30 00-3AK11 3SB30 00-3AK01	1 unit 1 unit
RONIS	SB 30	O	3SB30 00-4BD01	1 unit
CES	SSG 10	O	3SB30 00-4MD01	1 unit
LSG 1		O	3SB30 00-4MF11	1 unit
BKS	S1	O	3SB30 00-5BD01	1 unit
O.M.R. ³⁾	73038 Light blue	O	3SB30 00-3BG01	1 unit
	73037 Red	O	3SB30 00-3BH01	1 unit
	73034 Black	O	3SB30 00-3BJ01	1 unit
	73033 Yellow	O	3SB30 00-3BK01	1 unit

 For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with **"-Z"** and quote order code **"B01"**. Price reduction on request.

²⁾ For locks with key monitoring the supplied 3SB39 01-0AB holder must be used.

The key scan is performed by a 3SB34 single-pole NC contact block which must be snap-mounted in the center position. Scanning of the switch positions must be performed by additional contact blocks which are snap-mounted on the actuator.

Special locks can be ordered only with order code "Y01".

³⁾ According to FIAT standards; also available for other users.

For BKS and CES special locks see page 10/69.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Actuators and Indicators

Version	Lock version		DT	Configurator	PS	
	Type	Lock No./color		Key removal position		Order No.
th holder ¹⁾						
Key-operated switches with 2 keys, 3 switch positions						
Switching sequence I-O-II, 2 x 50° operating angle, maintained 	RONIS	SB 30	I+O+II O I+II I II O+I	3SB30 00-4DD11 3SB30 00-4DD01 3SB30 00-4DD41 3SB30 00-4DD21 3SB30 00-4DD31 3SB30 00-4DD51	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	
	CES	SSG 10	I+O+II O O+I I+II I II	3SB30 00-4PD11 3SB30 00-4PD01 3SB30 00-4PD51 3SB30 00-4PD41 3SB30 00-4PD21 3SB30 00-4PD31	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	
	CES with key monitoring	SSG 10	O	3SB30 00-4PD05	1 unit	
	2)					
	BKS	S1	I+O+II II O	3SB30 00-5DD11 3SB30 00-5DD31 3SB30 00-5DD01	1 unit 1 unit 1 unit	
	O.M.R. ³⁾	73038 Light blue	I+O+II O	3SB30 00-3DG11 3SB30 00-3DG01	1 unit 1 unit	
		73037 Red	O O+I	3SB30 00-3DH01 3SB30 00-3DH51	1 unit 1 unit	
		73034 Black	I+O+II O	3SB30 00-3DJ11 3SB30 00-3DJ01	1 unit 1 unit	
		73033 Yellow	I+O+II	3SB30 00-3DK11	1 unit	
	Switching sequence I-O-II, 2 x 50° operating angle, momentary, spring return from left and right 	RONIS	SB 30	O	3SB30 00-4ED01	1 unit
CES		SSG 10	O	3SB30 00-4QD01	1 unit	
BKS		S1	O	3SB30 00-5ED01	1 unit	
O.M.R. ³⁾		73034 Black	O	3SB30 00-3EJ01	1 unit	
		73037 Red	O	3SB30 00-3EH01		
Switching sequence I-O-II, 2 x 50° operating angle, momentary to the left, spring return from the left, maintained to the right 	RONIS	SB 30	O + II O II	3SB30 00-4GD61 3SB30 00-4GD01 3SB30 00-4GD31	1 unit 1 unit 1 unit	
	CES	SSG 10	O + II O	3SB30 00-4SD61 3SB30 00-4SD01	1 unit 1 unit	
	BKS	S1	O	3SB30 00-5GD01	1 unit	
	Switching sequence I-O-II, 2 x 50° operating angle, maintained to the left, momentary to the right, spring return from the right 	RONIS	SB 30	O+I O I	3SB30 00-4FD51 3SB30 00-4FD01 3SB30 00-4FD21	1 unit 1 unit 1 unit
		CES	SSG 10	O+I O I	3SB30 00-4RD51 3SB30 00-4RD01 3SB30 00-4RD21	1 unit 1 unit 1 unit
BKS		S1	O+I O I	3SB30 00-5FD51 3SB30 00-5FD01 3SB30 00-5FD21	1 unit 1 unit 1 unit	
O.M.R. ³⁾		73038 Light blue	O	3SB30 00-3FG01	1 unit	
		73034 Black	I	3SB30 00-3FJ21	1 unit	

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

²⁾ For locks with key monitoring the supplied 3SB39 01-0AB holder must be used.
The key scan is performed by a 3SB34 single-pole NC contact block which must be snap-mounted in the center position. Scanning of the switch positions must be performed by additional contact blocks which are snap-mounted on the actuator.
Special locks can be ordered only with order code "Y01".

³⁾ According to FIAT standards; also available for other users.

For BKS and CES special locks see page 10/69.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Actuators and Indicators

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Version	Color of handle	Approval	DT	Configurator 	PS
				Order No.	

EMERGENCY-STOP devices according to ISO 13850 and IEC 60947-5-5, with holder¹⁾²⁾. Can also be used with 3TK28 safety relays.



Mushroom diameter 32 mm

EMERGENCY-STOP mushroom push buttons, Ø 32 mm,
with positive maintained
according to ISO 13850, with rotate-to-
unlatch mechanism

Red



3SB30 00-1FA20

1 unit



Mushroom diameter 40 mm,
with rotate-to-unlatch mechanism,
with switch position indication

EMERGENCY-STOP mushroom push buttons, Ø 40 mm,
with positive maintained according to
ISO 13850, with rotate-to-unlatch
mechanism

Red



3SB30 00-1HA20

1 unit

- Without switch position indicator
- With mechanical switch position indication
- Flat head style

3SB30 00-1HA26

1 unit

3SB30 00-1XA20



Mushroom diameter 40 mm,
pull-to-unlatch mechanism

EMERGENCY-STOP mushroom push buttons, Ø 40 mm,
with positive maintained according to
ISO 13850, with pull-to-unlatch mechanism

Red



3SB30 00-1TA20

1 unit



Mushroom diameter 60 mm

EMERGENCY-STOP mushroom push buttons, Ø 60 mm,
with positive maintained according to
ISO 13850, with rotate-to-unlatch mechanism

Red



3SB30 00-1AA20

1 unit



Mushroom diameter 40 mm,
with RONIS key-operated switch

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with RONIS lock,
lock No. SB 30, with positive maintained
acc. to ISO 13850,
unlocking only possible using key

Red



3SB30 00-1BA20

1 unit

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with CES lock,
lock No. SSG 10, with positive maintained
according to ISO 13850,
unlocking only possible using key

Red



3SB30 00-1KA20

1 unit



Mushroom diameter 40 mm,
with CES key-operated switch

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with BKS lock,
lock No. S1, with positive maintained
according to ISO 13850,
unlocking only possible using key

Red



3SB30 00-1LA20

1 unit

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with O.M.R. lock,
lock No. 73037, with positive maintained
according to ISO 13850,
unlocking only possible using key

Red



3SB30 00-1MA20

1 unit

EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with "EMO" marking for SEMI S2 compliance
with mechanical maintained function acc. to
EN418, turn short handle to left to unlatch

Red (flat)

3SB30 00-1XB80

1 unit

 For online configurator see www.siemens.com/sirius/configurators

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

2) Yellow backing plates must be ordered separately; see "Accessories" on page 10/84..

For BKS and CES special locks see page 10/69.

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Actuators and Indicators

Version	Color of lens	DT	Configurator	PS
			Order No.	
Signaling elements with holder ¹⁾				
	Indicator lights with smooth lens ²⁾	Amber	3SB30 01-6AA00	1 unit
		Red	3SB30 01-6AA20	1 unit
		Yellow	3SB30 01-6AA30	1 unit
		Green	3SB30 01-6AA40	1 unit
		Blue	3SB30 01-6AA50	1 unit
		White	3SB30 01-6AA60	1 unit
		Clear	3SB30 01-6AA70	1 unit
	Indicator lights with lens with concentric rings ²⁾	Amber	3SB30 01-6BA00	1 unit
		Red	3SB30 01-6BA20	1 unit
		Yellow	3SB30 01-6BA30	1 unit
		Green	3SB30 01-6BA40	1 unit
		Blue	3SB30 01-6BA50	1 unit
		White	3SB30 01-6BA60	1 unit
		Clear	3SB30 01-6BA70	1 unit
Acoustic signaling devices, IP40 ³⁾ For acoustic signal transformer 24 V DC ⁴⁾ (without BA 9s base)		Black	3SB30 00-7AA10	1 unit

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

²⁾ Inscription by inserting a label is not possible.

³⁾ For acoustic signaling devices, IP65, see "Complete Units".

⁴⁾ Following must be ordered separately:
 - 3SB1902-2BN acoustic signal transformer, see "Accessories".
 - 3SB34 00-1A lamp holder for front plate mounting or
 3SB34 20-1A lamp holder for base mounting, both with screw terminals.
 Devices assembled in this way are suitable for use in enclosures.
 Lamp holders with spring-type terminals cannot be used.

Version	Inscriptions	Color of handle	DT	Configurator	PS
				Order No.	
Twin push buttons with indicator light with holder¹⁾²⁾					
	Twin push buttons with indicator light, IP65 with flat, square buttons, incl. holder for 3 elements	I/O ³⁾	Green/Red	3SB31 01-8BC21	1 unit
		I/O ³⁾	White/Black	3SB31 01-8BC31	1 unit
		↑ / ↓ ³⁾	Green/Red	3SB31 01-8BC81	1 unit
	Twin push buttons with indicator light, IP65 with flat and raised, square buttons, incl. holder for 3 elements	I/O ³⁾	Green/Red	3SB31 01-8DC21	1 unit
		I/O ³⁾	White/Black	3SB31 01-8DC31	1 unit

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Mounting the twin push buttons in 3SB38 enclosure is not possible.

²⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

³⁾ Black inscription for green, red and white

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Actuators and Indicators

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Version	Inscriptions	Color of handle	DT	Configurator 	PS
				Order No.	

Twin push buttons with holder¹⁾²⁾



Twin push button with flat buttons

Twin push buttons, IP65 with flat, square buttons	I/O ³⁾ I/O ³⁾ ↑ / ↓ ³⁾	Green/Red White/Black White/White		3SB31 00-8AC21 3SB31 00-8AC31 3SB31 00-8AC61-0AD0	1 unit 1 unit 1 unit
Twin push buttons, IP65 with flat and raised, square buttons	I/O ³⁾ I/O ³⁾	Green/Red White/Black		3SB31 00-8CC21 3SB31 00-8CC31	1 unit 1 unit

 For online configurator see www.siemens.com/sirius/configurators.

- ¹⁾ Mounting the twin push buttons in 3SB38 enclosure is not possible.
²⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.
³⁾ Black inscription for green, red and white buttons; white inscription on black button.

Version	Use	DT	Order No.	PS
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Accessories for twin push buttons



Label holder

Label holders 70 mm x 30 mm for inscription label 12.5 mm x 27 mm ¹⁾	Twin push buttons		3SB39 22-0AY	5 units
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Protective cap

Protective caps, clear Silicone, for degree of protection IP67	Twin push buttons with flat buttons		3SB39 21-0AQ	1 unit
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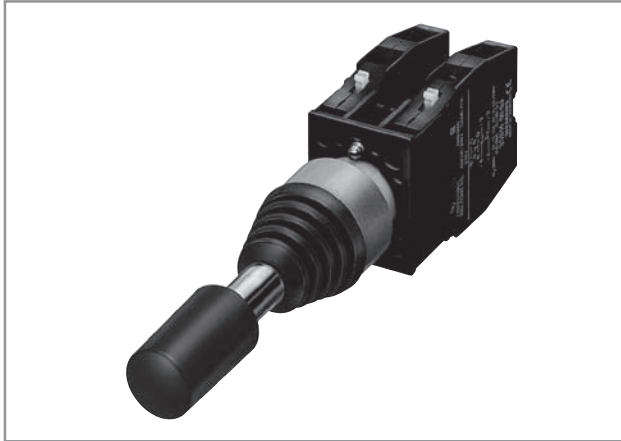
- ¹⁾ Mounting in 3SB38 enclosure is not possible.
For inscription labels see [pages 10/75 and 10/76](#).

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Coordinate switches, complete

Overview



Coordinate switch with contact blocks

Coordinate switches control auxiliary circuits permitting movements in various directions of machines and equipment.

The switches are designed for front panel mounting. They are climate-proof.

Operation

The 3SB14 00-0J contact block is used, which due to its depth cannot be built into 3SB38 enclosures.

Switches are available as follows:

- With 2 or 4 switch positions
- Latching or momentary contact type
- With or without mechanical interlocking

In the case of switches with mechanical interlock in O position, the switch is unlatched with the unlatching button at the front of the actuating lever.

Inscriptions

A name plate consisting of a black, plastic label holder and two or four adhesive, silver-colored inscription labels of 27 mm x 27 mm in size is available for labeling purposes. These labels can be supplied with and without customized inscription.

Note mounting dimensions!

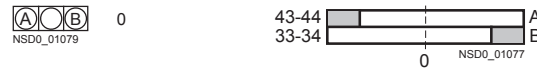
Selection and ordering data

Version	Operating travel	DT	Screw terminals	PU (UNIT, SET, M)	PS
	☐ Contact closed ☐ Contact open				
Order No.					

Coordinate switches

2 switch positions, 1 NO per direction

Horizontal, momentary contact type



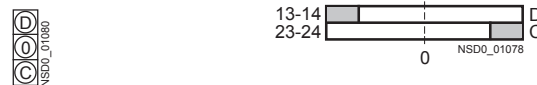
Without mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

With mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

Vertical, momentary contact type

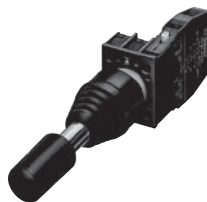


Without mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

With mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring



Coordinate switch,
2 switch positions

C	3SB12 01-7DV01	1	1 unit
C	3SB12 01-7DV20	1	1 unit
C	3SB12 01-7DW01	1	1 unit
C	3SB12 01-7DW20	1	1 unit
C	3SB12 01-7FV01	1	1 unit
C	3SB12 01-7FV20	1	1 unit
C	3SB12 01-7FW01	1	1 unit
C	3SB12 01-7FW20	1	1 unit

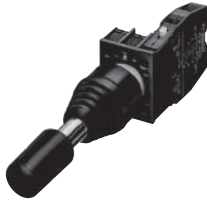
Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Coordinate switches, complete

Version	Operating travel	DT	Screw terminals	PS
	Contact closed Contact open		Screw terminals	
			Order No.	

Coordinate switches



Coordinate switch,
2 switch positions

2 switch positions, 1 NO per direction

Horizontal, maintained



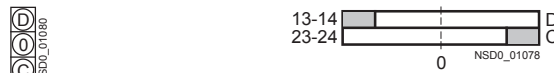
Without mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

With mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

Vertical, maintained



Without mechanical interlocking in the O position

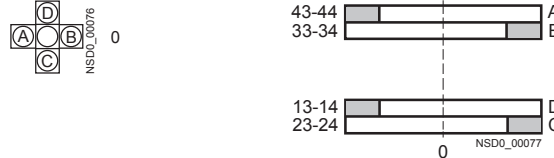
- With plastic front ring, black
- With metal front ring

With mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

4 switch positions, 1 NO per direction

Momentary contact type



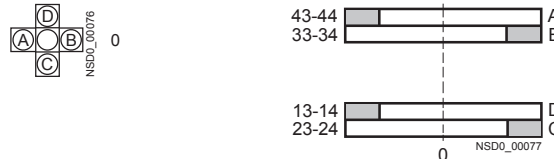
Without mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

With mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

Latching



Without mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

With mechanical interlocking in the O position

- With plastic front ring, black
- With metal front ring

3SB12 01-7EV01

1 unit

3SB12 01-7EV20

1 unit

3SB12 01-7EW01

1 unit

3SB12 01-7EW20

1 unit

3SB12 01-7GV01

1 unit

3SB12 01-7GV20

1 unit

3SB12 01-7GW01

1 unit

3SB12 01-7GW20

1 unit

3SB12 08-7JV01

1 unit

3SB12 08-7JV20

1 unit

3SB12 08-7JW01

1 unit

3SB12 08-7JW20

1 unit

3SB12 08-7KV01

1 unit

3SB12 08-7KV20

1 unit

3SB12 08-7KW01

1 unit

3SB12 08-7KW20

1 unit

Push Button Units and Indicator Lights

3SB3, Plastic, Round, 22 mm

Coordinate switches, complete

Accessories

Version	DT	PS
Contact blocks		
Symbols/ operating travel		
 Contact closed		
 Contact open		

Screw terminals 

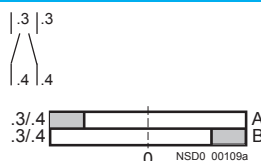
Order No.

Spare contact blocks



3SB14 00-0J

Contact blocks with 2 contacts
1 NO, 1 NO
(included in scope of supply of switch)



3SB14 00-0J 1 unit

Version	DT	PS
Order No.		

Name plates



3SB19 06-0AV

Label holders for coordinate switches

2 switch positions, horizontal, 89 mm x 30 mm

2 switch positions, vertical, 30 mm x 89 mm

4 switch positions

Inscription labels 27 mm x 27 mm, silver-colored, for sticking in place

Without inscription

With inscription (engraved)

- Text lines (up to 5 lines each with 11 characters)
- Graphic symbol with number according to ISO 7000 or IEC 60417
- Any inscription or symbol

3SB19 06-0AU 1 unit

3SB19 06-0AV 1 unit

3SB19 06-0AW 1 unit

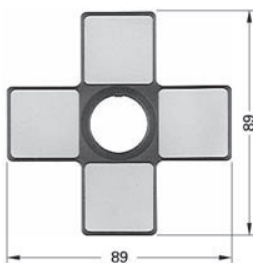
3SB19 06-2AA 1 unit

3SB19 06-2XZ

K0Y, K1Y, K2Y, or K5Y 1 unit

K3Y 1 unit

K9Y 1 unit



3SB19 06-0AW

For black plastic labels [see page 10/76](#).

Options

Customized inscriptions

These labeling plates can be inscribed with text or symbols. 5 lines with 11 characters each in a letter height of 4 mm are possible.

Ordering notes

Append the following order codes to the Order No.:

- Text line(s) in upper/lower case, upper case always for beginning of line (e.g. "Lift off"): **K0Y**
- Text line(s) in upper case (e.g. "LIFT OFF"): **K1Y**
- Text line(s) in lower case (e.g. "lift off"): **K2Y**
- Text line(s) in upper/lower case, all words begin with upper case letters (e.g. "Lift Off"): **K5Y**
- Symbol with number according to ISO 7000 or IEC 60417: **K3Y**
- Any inscription or symbol according to order form supplement: **K9Y**

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

In the case of multi-line inscriptions, the text must be assigned to the respective line, e.g. "Z1 = Lift, Z2 = Lower".

Symbols can also be ordered with numbers according to ISO 7000 or IEC 60417.

For special symbols (order code K9Y), a CAD drawing in DXF format can be submitted.

Ordering example

A label inscribed with symbol No. 1117 according to ISO 7000 is required:

3SB19 06-2XZ

K3Y

Z = 1117 ISO

For other ordering examples [see page 10/72](#).

Push Button Units and Indicator Lights

3SB3, Plastic, Square, 22 mm

Complete Units

1
2
3
4
5
6
7
8
9
10

Selection and ordering data

Version	Rated voltage of lamp	Color of handle	Contacts for front plate mounting	DT	Screw terminals 	PS
					Configurator 	
	V				Order No.	

Push buttons



Push button



Illuminated push button

Push buttons with flat button	—	Black Black Red Yellow Green Blue White	1 NO	3SB33 02-0AA11	1 unit
			1 NC	3SB33 03-0AA11	1 unit
			1 NC	3SB33 03-0AA21	1 unit
			1 NO	3SB33 02-0AA31	1 unit
			1 NO	3SB33 02-0AA41	1 unit
			1 NO	3SB33 02-0AA51	1 unit
			1 NO	3SB33 02-0AA61	1 unit
			1 NO + 1 NC	3SB33 01-0AA11	1 unit
			1 NO + 1 NC	3SB33 01-0AA21	1 unit
			1 NO + 1 NC	3SB33 01-0AA31	1 unit
			1 NO + 1 NC	3SB33 01-0AA41	1 unit
			1 NO + 1 NC	3SB33 01-0AA51	1 unit
			1 NO + 1 NC	3SB33 01-0AA61	1 unit
			1 NO	3SB33 46-0AA21	1 unit
			1 NO	3SB33 45-0AA31	1 unit
			1 NO	3SB33 45-0AA41	1 unit
Illuminated push buttons with flat button with integrated LED (incl. holder for 3 elements)	24 AC/DC	Red ¹⁾ Yellow ¹⁾ Green ¹⁾ Blue ¹⁾ White Clear ¹⁾	1 NC	3SB33 46-0AA21	1 unit
			1 NO	3SB33 45-0AA31	1 unit
			1 NO	3SB33 45-0AA41	1 unit
			1 NO	3SB33 45-0AA51	1 unit
			1 NO	3SB33 45-0AA61	1 unit
			1 NO	3SB33 45-0AA71	1 unit
			1 NO + 1 NC	3SB33 47-0AA21	1 unit
			1 NO + 1 NC	3SB33 47-0AA31	1 unit
			1 NO + 1 NC	3SB33 47-0AA41	1 unit
			1 NO + 1 NC	3SB33 47-0AA51	1 unit
			1 NO + 1 NC	3SB33 47-0AA61	1 unit
			1 NO + 1 NC	3SB33 47-0AA71	1 unit
			1 NC	3SB33 54-0AA21	1 unit
			1 NO	3SB33 53-0AA31	1 unit
			1 NO	3SB33 53-0AA41	1 unit
			1 NO	3SB33 53-0AA51	1 unit
Illuminated push buttons with flat button with integrated LED (incl. holder for 3 elements)	230 AC	Red ¹⁾ Yellow ¹⁾ Green ¹⁾ Blue ¹⁾ White Clear ¹⁾	1 NO	3SB33 53-0AA61	1 unit
			1 NO	3SB33 53-0AA71	1 unit
			1 NO + 1 NC	3SB33 55-0AA21	1 unit
			1 NO + 1 NC	3SB33 55-0AA31	1 unit
			1 NO + 1 NC	3SB33 55-0AA41	1 unit
			1 NO + 1 NC	3SB33 55-0AA51	1 unit
			1 NO + 1 NC	3SB33 55-0AA61	1 unit
			1 NO + 1 NC	3SB33 55-0AA71	1 unit
			1 NC	3SB33 07-0AA21	1 unit
			1 NO	3SB33 06-0AA31	1 unit
			1 NO	3SB33 06-0AA41	1 unit
			1 NO	3SB33 06-0AA51	1 unit
			1 NO	3SB33 06-0AA61	1 unit
			1 NO	3SB33 06-0AA71	1 unit
			1 NO + 1 NC	3SB33 05-0AA21	1 unit
			1 NO + 1 NC	3SB33 05-0AA31	1 unit
Illuminated push buttons with flat button with BA 9s lamp holder without lamp (incl. holder for 3 elements)		Red ¹⁾ Yellow ¹⁾ Green ¹⁾ Blue ¹⁾ White Clear ¹⁾	1 NO + 1 NC	3SB33 05-0AA41	1 unit
			1 NO + 1 NC	3SB33 05-0AA51	1 unit
			1 NO + 1 NC	3SB33 05-0AA61	1 unit
			1 NO + 1 NC	3SB33 05-0AA71	1 unit

 For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Inscription is possible by inserting a label.

Push Button Units and Indicator Lights

3SB3, Plastic, Square, 22 mm

Complete units

Version	Color of handle	Contacts for front plate mounting	DT	Screw terminals	PS
				Configurator	
				Order No.	

EMERGENCY-STOP devices acc. to ISO 13850, with yellow name plate, Ø 80 mm, with inscription¹⁾. Can also be used with 3TK28 safety relays.



EMERGENCY-STOP mushroom push buttons, Ø 40 mm, with positive main-tained function, with rotate-to-unlatch mechanism

Red

1 NC



1 NO + 1 NC



3SB33 03-1HA20

1 unit

3SB33 01-1HA20

1 unit

EMERGENCY-STOP mushroom push button with rotate-to-unlatch mechanism

For online configurator see www.siemens.com/sirius/configurators.

Positive opening according to IEC 60947-5-1, Appendix K. Can be used with 3TK28 safety relays. Certificate:



¹⁾ German inscription "NOT-HALT".

Version	Rated voltage of lamp	Color of lens	DT	Screw terminals	PS
				Configurator	
				Order No.	

V

Signaling devices



Indicator light

Indicator lights with integrated LED

24 AC/DC

Red
Yellow
Green
Blue
White
Clear

3SB33 44-6AA20
3SB33 44-6AA30
3SB33 44-6AA40
3SB33 44-6AA50
3SB33 44-6AA60
3SB33 44-6AA70

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

Indicator lights with integrated LED

230 AC

Red
Yellow
Green
Blue
White
Clear

3SB33 52-6AA20
3SB33 52-6AA30
3SB33 52-6AA40
3SB33 52-6AA50
3SB33 52-6AA60
3SB33 52-6AA70

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

Indicator lights with BA 9s lamp holder (without lamp)

–

Red
Yellow
Green
Blue
White
Clear

3SB33 04-6AA20
3SB33 04-6AA30
3SB33 04-6AA40
3SB33 04-6AA50
3SB33 04-6AA60
3SB33 04-6AA70

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

For online configurator see www.siemens.com/sirius/configurators.

Push Button Units and Indicator Lights

3SB3, Plastic, Square, 22 mm

Actuators and Indicators

1

2

3

4

5

6

7

8

9

10

Selection and ordering data

Version	Color of handle	DT	Configurator 	PS
			Order No.	
Push buttons and switches with holder¹⁾				
 Push button	Push buttons with flat button	Black	3SB31 10-0AA11	1 unit
		Red	3SB31 10-0AA21	1 unit
		Yellow	3SB31 10-0AA31	1 unit
		Green	3SB31 10-0AA41	1 unit
		Blue	3SB31 10-0AA51	1 unit
		White	3SB31 10-0AA61	1 unit
		Clear ²⁾	3SB31 10-0AA71	1 unit
 Push button with raised front ring	Push buttons with raised front ring (height 13 mm)	Black	3SB31 10-0AA12	1 unit
		Red	3SB31 10-0AA22	1 unit
		Green	3SB31 10-0AA42	1 unit
		White	3SB31 10-0AA62	1 unit
 Push button with raised front ring, castellated	Push buttons with raised front ring, castellated (height 13 mm)	Black	3SB31 10-0AA13	1 unit
		Red	3SB31 10-0AA23	1 unit
		Yellow	3SB31 10-0AA33	1 unit
		Green	3SB31 10-0AA43	1 unit
		White	3SB31 10-0AA63	1 unit
 Illuminated push button	Illuminated push buttons with flat button (incl. holder for 3 elements)	Red ²⁾	3SB31 11-0AA21	1 unit
		Yellow ²⁾	3SB31 11-0AA31	1 unit
		Green ²⁾	3SB31 11-0AA41	1 unit
		Blue ²⁾	3SB31 11-0AA51	1 unit
		White	3SB31 11-0AA61	1 unit
		Clear ²⁾	3SB31 11-0AA71	1 unit
 Push button	Push buttons, maintained, with flat button, unlocking by pressing again	Black	3SB31 10-0DA11	1 unit
		Red	3SB31 10-0DA21	1 unit
		Yellow	3SB31 10-0DA31	1 unit
		Green	3SB31 10-0DA41	1 unit
		Blue	3SB31 10-0DA51	1 unit
		White	3SB31 10-0DA61	1 unit
 Illuminated push button	Illuminated push buttons, maintained, with flat button (incl. holder for 3 elements), unlatches by pressing again,	Red ²⁾	3SB31 11-0DA21	1 unit
		Yellow ²⁾	3SB31 11-0DA31	1 unit
		Green ²⁾	3SB31 11-0DA41	1 unit
		Blue ²⁾	3SB31 11-0DA51	1 unit
		White	3SB31 11-0DA61	1 unit
		Clear ²⁾	3SB31 11-0DA71	1 unit

 For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

²⁾ Inscription is possible by inserting a label.

Push Button Units and Indicator Lights

3SB3, Plastic, Square, 22 mm

Actuators and Indicators

Version	Version Illumination	Color of handle	DT	Configurator	PS			
				Order No.				
Selector switches with holder ¹⁾								
Selector switches with 2 switch positions								
	Switching sequence O-I, 50° operating angle, maintained 	Non-illuminated	Black Red Green White	3SB31 10-2KA11 3SB31 10-2KA21 3SB31 10-2KA41 3SB31 10-2KA61	1 unit 1 unit 1 unit 1 unit			
		Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB31 11-2KA21 3SB31 11-2KA31 3SB31 11-2KA41 3SB31 11-2KA51 3SB31 11-2KA71	1 unit 1 unit 1 unit 1 unit 1 unit			
			Switching sequence O-I, 50° operating angle, momentary, spring return from the left 	Non-illuminated	Black Red Green White	3SB31 10-2LA11 3SB31 10-2LA21 3SB31 10-2LA41 3SB31 10-2LA61	1 unit 1 unit 1 unit 1 unit	
				Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB31 11-2LA21 3SB31 11-2LA31 3SB31 11-2LA41 3SB31 11-2LA51 3SB31 11-2LA71	1 unit 1 unit 1 unit 1 unit 1 unit	
Selector switches with 3 switch positions								
	Switching sequence I-O-II, 2 x 50° operating angle, maintained 			Non-illuminated	Black Red Green White	3SB31 10-2DA11 3SB31 10-2DA21 3SB31 10-2DA41 3SB31 10-2DA61	1 unit 1 unit 1 unit 1 unit	
		Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB31 11-2DA21 3SB31 11-2DA31 3SB31 11-2DA41 3SB31 11-2DA51 3SB31 11-2DA71	1 unit 1 unit 1 unit 1 unit 1 unit			
			Switching sequence I-O-II, 2 x 50° operating angle, momentary, spring return from the left and right 	Non-illuminated	Black Red Green White	3SB31 10-2EA11 3SB31 10-2EA21 3SB31 10-2EA41 3SB31 10-2EA61	1 unit 1 unit 1 unit 1 unit	
				Illuminated (incl. holder for 3 elements)	Red Yellow Green Blue Clear	3SB31 11-2EA21 3SB31 11-2EA31 3SB31 11-2EA41 3SB31 11-2EA51 3SB31 11-2EA71	1 unit 1 unit 1 unit 1 unit 1 unit	
	Switching sequence I-O-II, 2 x 50° operating angle, momentary to the left, spring return from the left, maintained to the right 			Non-illuminated	Black Green White	3SB31 10-2GA11 3SB31 10-2GA41 3SB31 10-2GA61	1 unit 1 unit 1 unit	
			Switching sequence I-O-II, 2 x 50° operating angle, maintained to the left, momentary to the right, spring return from the right 	Non-illuminated	Black Red Green	3SB31 10-2FA11 3SB31 10-2FA21 3SB31 10-2FA41	1 unit 1 unit 1 unit	

 For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with **"-Z"** and quote order code **"B01"**. Price reduction on request.

Push Button Units and Indicator Lights

3SB3, Plastic, Square, 22 mm

Actuators and Indicators

Version	Lock version	DT	Configurator	PS
Type	Lock No./color	Key removal position	Order No.	

Key-operated switches with holder¹⁾



RONIS key-operated switch



CES key-operated switch



O.M.R. key-operated switch

Key-operated switches with 2 keys, 2 switch positions

Switching sequence O-I,
50° operating angle,
maintained



RONIS	SB 30	O+I O I	3SB31 10-4AD11 3SB31 10-4AD01 3SB31 10-4AD21	1 unit 1 unit 1 unit
CES	SSG 10	O+I O I	3SB31 10-4LD11 3SB31 10-4LD01 3SB31 10-4LD21	1 unit 1 unit 1 unit
	LSG 1	O+I O	3SB31 10-4LF01 3SB31 10-4LF11	1 unit 1 unit
BKS	S1	O+I O	3SB31 10-5AD11 3SB31 10-5AD01	1 unit 1 unit
O.M.R. ²⁾	73037 Red	O	3SB31 10-3AH01	1 unit
	73034 Black	O+I	3SB31 10-3AJ11	1 unit
	73037 Red	O+I	3SB31 10-3AH11	

Switching sequence O-I,
50° operating angle,
momentary, spring return from
the right



RONIS	SB 30	O	3SB31 10-4BD01	1 unit
CES	SSG 10	O	3SB31 10-4MD01	1 unit

Key-operated switches with 2 keys, 3 switch positions

Switching sequence I-O-II,
2 x 50° operating angle,
maintained



RONIS	SB 30	I+O+II	3SB31 10-4DD11	1 unit
CES	SSG 10	I+O+II O	3SB31 10-4PD11 3SB31 10-4PD01	1 unit 1 unit
BKS	S1	O	3SB31 10-5BD01	1 unit

Switching sequence I-O-II,
2 x 50° operating angle,
momentary, spring return from
the left and right



RONIS	SB 30	O	3SB31 10-4ED01	1 unit
CES	SSG 10	O	3SB31 10-4QD01	1 unit

Switching sequence I-O-II,
2 x 50° operating angle,
momentary to the left, spring
return from the left,
maintained to the right



CES	SSG 10	O	3SB31 10-4SD01	1 unit
-----	--------	---	-----------------------	--------

Switching sequence I-O-II,
2 x 50° operating angle,
maintained maintained main-
tained to the left,
momentary to the right, spring
return from the right



CES	SSG 10	O+I	3SB31 10-4RD51	1 unit
-----	--------	-----	-----------------------	--------

For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with "-Z" and quote order code "B01". Price reduction on request.

²⁾ According to FIAT standards; also available for other users.

For BKS and CES special locks see page 10/69

Push Button Units and Indicator Lights

3SB3, Plastic, Square, 22 mm

Actuators and Indicators

EMERGENCY-STOP devices according to ISO 13850 and IEC 60947-5-5, with holder¹⁾²⁾. Can also be used with 3TK28 safety relays.



EMERGENCY-STOP mushroom push button with rotate-to-unlatch mechanism

EMERGENCY-STOP mushroom push buttons, Ø 40 mm,
with positive latching according to ISO 13850,
with rotate-to-unlatch mechanism

Red



3SB31 10-1HA20

1 unit



EMERGENCY-STOP mushroom push button with RONIS key-operated switch

EMERGENCY-STOP mushroom push buttons, Ø 40 mm,
with RONIS key-operated switch
(with 2 keys), lock No. SB 30,
with positive latching according to ISO 13850,
unlocking only possible using key

Red



3SB31 10-1BA20

1 unit



EMERGENCY-STOP mushroom push button with CES key-operated switch

EMERGENCY-STOP mushroom push buttons, Ø 40 mm,
with CES key-operated switch
(with 2 keys), lock No. SSG 10,
with positive latching according to ISO 13850,
unlocking only possible using key

Red



3SB31 10-1KA20

1 unit



EMERGENCY-STOP mushroom push button with BKS key-operated switch

EMERGENCY-STOP mushroom push buttons, Ø 40 mm,
with BKS key-operated switch
(with 2 keys),
lock No. S1, with positive latching according to ISO 13850,
unlocking only possible using key

Red



3SB31 10-1LA20

1 unit

EMERGENCY-STOP mushroom push buttons, Ø 40 mm,
with O.M.R. key-operated switch
(with 2 keys), lock No. 73037
with positive latching according to ISO 13850,
unlocking only using key

Red



3SB31 10-1MA20

1 unit

¹⁾ For online configurator see www.siemens.com/sirius/configurators.

²⁾ Also available without holder. Supplement Order No. with **"-Z"** and quote order code **"B01"**. Price reduction on request.

²⁾ Yellow backing plates must be ordered separately; see **"Accessories"** on page 10/84.

For BKS and CES special locks see page 10/69

Signaling elements with holder¹⁾



Indicator lights

Indicator lights

Red
Yellow
Green
Blue
Clear
White

3SB31 11-6AA20
3SB31 11-6AA30
3SB31 11-6AA40
3SB31 11-6AA50
3SB31 11-6AA70
3SB31 11-6AA60

1 unit
1 unit
1 unit
1 unit
1 unit
1 unit

¹⁾ For online configurator see www.siemens.com/sirius/configurators.

¹⁾ Also available without holder. Supplement Order No. with **"-Z"** and quote order code **"B01"**. Price reduction on request.

Push Button Units and Indicator Lights

3SB3, Components for Actuators and Indicators, 22 mm

Contact blocks and lamp holders

1
2
3
4
5
6
7
8
9
10

Selection and ordering data

Version	Diagram	Operating travel	DT	Screw terminals	PS
		Contact closed		Order No.	
		Contact open			

Contact blocks for front plate mounting



3SB34 00-0B



3SB34 00-0M



3SB34 00-0A

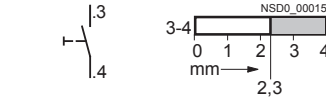


3SB34 00-2A

Contact blocks with one contact

- Mounting depth: 50 mm

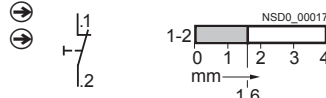
1 NO
1 NO with
gold-plated contacts



3SB34 00-0B
3SB34 00-0BA

1 unit
1 unit

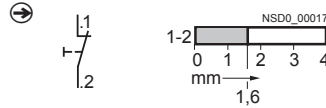
1 NC
1 NC with
gold-plated contacts



3SB34 00-0C
3SB34 00-0CA

1 unit
1 unit

1 NC with
mounting monitoring contact¹⁾
• Mounting depth: 63 mm



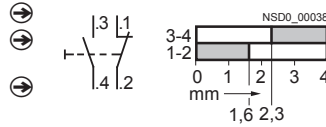
3SB34 00-0M

1 unit

Contact block with 2 contacts

Mounting depth 63 mm (including unit labeling plate)

1 NO + 1 NC
1 NO + 1 NC
with gold-plated contacts



3SB34 00-0A
3SB34 00-0AA

1 unit
1 unit

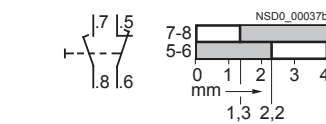
1 NO + 1 NC with
dust protection²⁾



3SB34 00-0N

1 unit

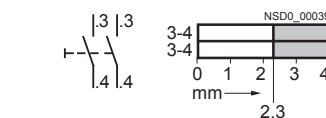
1 NO leading + 1 NC lagging
1 NO leading + 1 NC lagging
with gold-plated contacts



3SB34 00-0H
3SB34 00-0HA

1 unit
1 unit

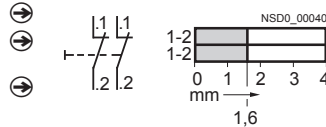
2 NO
2 NO with
gold-plated contacts
2 NO with
dust protection²⁾



3SB34 00-0D
3SB34 00-0DA

1 unit
1 unit

2 NC
2 NC with
gold-plated contacts
2 NC with dust protection²⁾



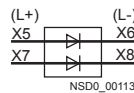
3SB34 00-0E
3SB34 00-0EA
3SB34 00-0Q

1 unit
1 unit
1 unit

Blocks with 2 diodes type 1N 4007

Mounting depth: 63 mm

U_{RMS} = max. 250 V
 I_{FAV} = 0.8 A
at T_U = 60 °C



3SB34 00-2A

1 unit

➔ Positive opening according to IEC 60947-5-1, Appendix K.

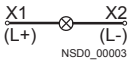
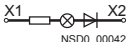
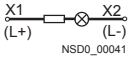
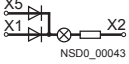
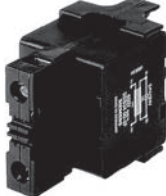
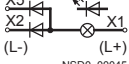
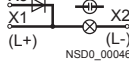
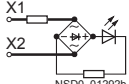
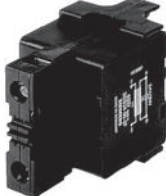
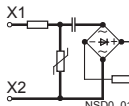
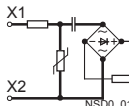
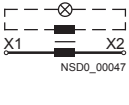
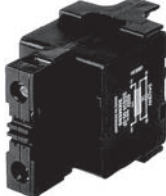
¹⁾ The NC contact opens automatically upon disconnection of the actuator.
On delivery, the contact is open (= safe state).
Activation (= NC contacts on the non-actuated control device are closed)
takes place upon first-time actuation after the contact block is snapped
onto the actuator.
Not suitable for mounting in 3SB38 enclosures.

²⁾ With 3SB30 01-0CH dust protection shield

Push Button Units and Indicator Lights

3SB3, Components for Actuators and Indicators, 22 mm

Contact blocks and lamp holders

Version	Diagram	Rated voltage	DT	Screw terminals 	PS
		V		Order No.	
Contact blocks for front plate mounting					
	BA 9s lamp holders , mounting depth 50 mm				
	Without lamp		Acc. to lamp	3SB34 00-1A	1 unit
	With 24 V incandescent lamp (3SX1 344)		24 AC/DC	3SB34 00-1D	1 unit
	BA 9s lamp holders , mounting depth 50 mm				
	With integrated voltage reducer and with 130 V lamp (3SX1 731) ¹⁾		230 / 240 AC	3SB34 00-1C	1 unit
	With built-in resistor for longer endurance and with 130 V lamp (3SX1 731) ¹⁾		110/130 AC/DC	3SB34 00-1B	1 unit
	BA 9s lamp holders with separate lamp test function ²⁾³⁾				
	With integrated voltage reducer and with 130 V lamp (3SX1 731) ¹⁾		230 / 240 AC	3SB34 00-1F	1 unit
	Without lamp		Acc. to lamp	3SB34 00-1G	1 unit
	For incandescent lamp, max. 2.6 W; for LED lamp, 24/48/230 V AC/DC ⁴⁾		Acc. to lamp	3SB34 00-1L	1 unit
	Without lamp		Acc. to lamp	3SB34 00-1H	1 unit
	Without lamp		Acc. to lamp	3SB34 00-1H	1 unit
	Lamp holders with integrated LED				
	Mounting depth: 50 mm				
	Yellow Red Green Blue White		24 AC/DC	3SB34 00-1PA 3SB34 00-1PB 3SB34 00-1PC 3SB34 00-1PD 3SB34 00-1PE	1 unit 1 unit 1 unit 1 unit 1 unit
	Yellow Red Green Blue White		110 AC	3SB34 00-1QA 3SB34 00-1QB 3SB34 00-1QC 3SB34 00-1QD 3SB34 00-1QE	1 unit 1 unit 1 unit 1 unit 1 unit
	Yellow Red Green Blue White		230 AC	3SB34 00-1RA 3SB34 00-1RB 3SB34 00-1RC 3SB34 00-1RD 3SB34 00-1RE	1 unit 1 unit 1 unit 1 unit 1 unit
	Yellow Red Green Blue White		230 AC	3SB34 00-1RA 3SB34 00-1RB 3SB34 00-1RC 3SB34 00-1RD 3SB34 00-1RE	1 unit 1 unit 1 unit 1 unit 1 unit
	Transformers				
	For snapping onto 3SB34 00-1A lamp holder		127 / 24 240 / 24 260 / 24 400 / 24	3SB34 00-3A 3SB34 00-3C 3SB34 00-3E 3SB34 00-3F	1 unit 1 unit 1 unit 1 unit
	For incandescent lamp AC, max. 2 W		127 / 6 240 / 6 400 / 6 480 / 6 600 / 6	3SB34 00-3M 3SB34 00-3P 3SB34 00-3S 3SB34 00-3U 3SB34 00-3W	1 unit 1 unit 1 unit 1 unit 1 unit
Mounting depth: 97 mm					

¹⁾ Use these lamps only.

²⁾ The lamp holder with separate lamp test function can not be installed in an enclosure.

³⁾ For circuit examples see Reference manual "Commanding and Signaling Devices".

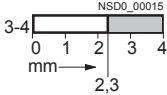
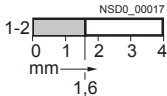
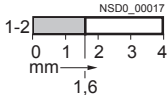
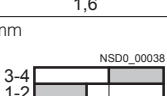
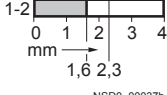
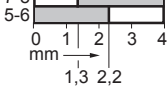
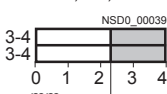
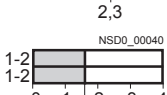
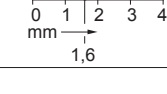
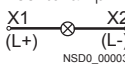
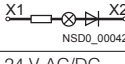
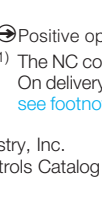
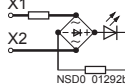
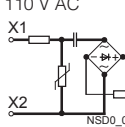
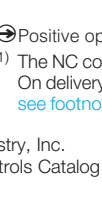
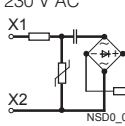
⁴⁾ Not suitable for LEDs which are suitable only for AC or DC.

⁵⁾ Not suitable for LED for 24/48/230 V AC/DC. For connecting to DC, X5 must be connected to L-.

Push Button Units and Indicator Lights

3SB3, Components for Actuators and Indicators, 22 mm

Contact blocks and lamp holders

Version	Rated voltage of lamp/ Diagram	Operating travel/color	DT	Spring-type terminals	PS
	V	 Contact closed  Contact open		Order No.	
Contact blocks for front plate mounting					
 3SB34 03-0B	Contact blocks with one contact , mounting depth 50 mm				
	1 NO			3SB34 03-0B	1 unit
	1 NO with gold-plated contacts			3SB34 03-0BA	1 unit
 3SB34 03-0M	1 NC			3SB34 03-0C	1 unit
	1 NC with gold-plated contacts			3SB34 03-0CA	1 unit
	1 NC with mounting monitoring contact ¹⁾			3SB34 03-0M	1 unit
	• Mounting depth: 63 mm				
 3SB34 03-0A	Contact blocks with 2 contacts , mounting depth 63 mm				
	1 NO + 1 NC			3SB34 03-0A	1 unit
	1 NO + 1 NC with gold-plated contacts			3SB34 03-0AA	1 unit
 3SB34 03-0A	1 NO leading + 1 NC lagging			3SB34 03-0H	1 unit
	1 NO leading + 1 NC lagging with gold-plated contacts			3SB34 03-0HA	1 unit
	2 NO			3SB34 03-0D	1 unit
 3SB34 03-0A	2 NO with gold-plated contacts			3SB34 03-0DA	1 unit
	2 NC			3SB34 03-0E	1 unit
	2 NC with gold-plated contacts			3SB34 03-0EA	1 unit
BA 9s lamp holders , mounting depth 50 mm					
 3SB34 03-1C	Without lamp ²⁾	Acc. to lamp  X1 (L+) X2 (L-) NSD0_00003		3SB34 03-1A	1 unit
	With integrated voltage reducer and with 130 V lamp (3SX1 731) ²⁾³⁾	230/240 V AC  X1 X2 NSD0_00042		3SB34 03-1C	1 unit
 3SB3403-1PA	Lamp holders with integrated LED				
	Mounting depth: 50 mm	24 V AC/DC  X1 X2 NSD0_01292b	Yellow Red Green Blue White	3SB34 03-1PA 3SB34 03-1PB 3SB34 03-1PC 3SB34 03-1PD 3SB34 03-1PE	1 unit 1 unit 1 unit 1 unit 1 unit
		110 V AC  X1 X2 NSD0_01296b	Yellow Red Green Blue White	3SB34 03-1QA 3SB34 03-1QB 3SB34 03-1QC 3SB34 03-1QD 3SB34 03-1QE	1 unit 1 unit 1 unit 1 unit 1 unit
 3SB3403-1PA		230 V AC  X1 X2 NSD0_01296b	Yellow Red Green Blue White	3SB34 03-1RA 3SB34 03-1RB 3SB34 03-1RC 3SB34 03-1RD 3SB34 03-1RE	1 unit 1 unit 1 unit 1 unit 1 unit

¹⁾ Positive opening according to IEC 60947-5-1, Appendix K.

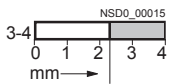
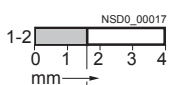
²⁾ Not suitable for square command devices.
³⁾ Use these lamps only.

¹⁾ The NC contact opens automatically upon disconnection of the actuator. On delivery, the contact is open (= safe state). For more explanations see footnote, page 10/65. Not suitable for mounting in 3SB38 enclosures.

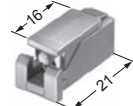
Push Button Units and Indicator Lights

3SB3, Components for Actuators and Indicators, 22 mm

Contact blocks and lamp holders

Version	Diagram	Operating travel	DT	Solder pin connections	PS
		☐ Contact closed ☐ Contact open		Order No.	
Contact blocks for use on printed circuit boards					
 3SB34 11-0B	Contact blocks with one contact Mounting depth 44 mm				
	1 NO	 		3SB34 11-0B	1 unit
	1 NC	 		3SB34 11-0C	1 unit
 3SB34 11-1A	Wedge base lamp holders W2 x 4.6 d Mounting depth: 44 mm Without lamp			3SB34 11-1A	1 unit

➔ Positive opening according to IEC 60947-5-1, Appendix K.

Version	DT	Order No.	PS
Holders for 3 contact blocks, for front panel mounting			
 3SB39 01-0AB	Holders for push buttons and switches¹⁾ for snapping on 3 blocks (for illuminated push buttons and illuminated selector switches the holder is included in the scope of supply)	3SB39 01-0AB	20 units
 3SB39 01-0AC	Holders for selector switches, key-operated switches and twin push buttons With pressure plate for actuating the central contact block of 3 contact blocks	3SB39 01-0AC	10 units
Pressure plates for use on printed circuit boards			
 3SB39 01-0AW	Pressure plates for selector switches and key-operated switches For actuating the central contact block of 3 contact blocks	3SB39 01-0AW	10 units
Accessories for printed circuit boards			
 3SB39 01-0AA	Holders for printed circuit boards for mounting the command devices on the printed circuit board (screw is included in the scope of supply)	3SB39 01-0AA	10 units

¹⁾ Holder also for mushroom push button and push-pull button.

Push Button Units and Indicator Lights

3SB3, Components for Actuators and Indicators, 22 mm

Special locks

1

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Options

Special locks for key-operated switches

The BKS and CES plastic and metal key-operated switches, round and square versions, can be optionally equipped with special locks.

In this case the Order No. of the matching key-operated switch must be supplemented with **"-Z"**, the matching order code **"Y01"** or **"Y02"** and the required lock number.

Order code	Y01	Y02
In accordance with the table of special locks	No	Yes
Normal delivery time	25 working days	5 working days
Additional price per unit	On request	On request
Ordering example	3SB30 00-4LD01-Z Y01 Z = SSG18	3SB30 00-4LD01-Z Y02 Z = SSG11

Available special locks with order code "Y02"	Order No. with order code
Key-operated switch	
CES SSG 11 to SSG 15	3SB3. ...-4LD01-Z Y02 3SB3. ...-4LD11-Z Y02 3SB3. ...-4LD21-Z Y02 3SB3. ...-4MD01-Z Y02 3SB3. ...-4PD...-Z Y02 3SB3. ...-4QD...-Z Y02 3SB3. ...-4RD...-Z Y02 3SB3. ...-4SD...-Z Y02
BKS E1, E2, E7, E9 ¹⁾	3SB3. ...-5AD...-Z Y02 3SB3. ...-5BD01-Z Y02 3SB3. ...-5DD...-Z Y02 3SB3. ...-5ED01-Z Y02 3SB3. ...-5FD01-Z Y02 3SB3. ...-5GD01-Z Y02
BKS E9 ¹⁾	3SB3. ...-5FD51-Z Y02

EMERGENCY-STOP mushroom push buttons

CES SSP 9	3SB3. ...-1KA20-Z Y02
BKS E2, E7, E9 ¹⁾	3SB3. ...-1LA20-Z Y02

¹⁾ Delivery of these BKS key-operated switches (locks for VW) without key.

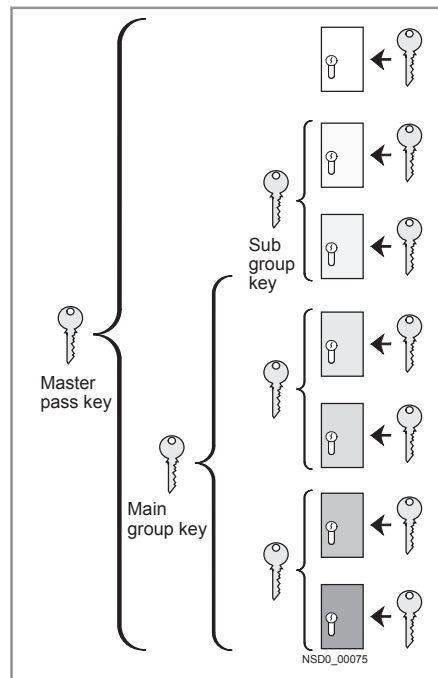
Master and master-pass key systems

The following key systems can be supplied with BKS or CES key-operated switches:

- Central lock systems
- Master key systems
- Central master key systems
- Master-pass key systems

When placing an order you must supplement the Order No. of the matching key-operated switches with **"-Z"** and quote the order code **"Y03"**.

Please enquire for price and delivery time.



Example of master-pass key system

Ordering notes

- For all special locks, an additional price applies.
- The order code **"Y01"** or **"Y02"** must be quoted in accordance with the table above. Automated processing of the order with a defined delivery time can be guaranteed only for correctly submitted orders.
- For applications in which access security is important and several lock numbers are used, we recommend the use of BKS or CES key-operated switches.
- Special locks for VW (E1, E2, ...) will be delivered without keys, all others with 2 keys.

Push Button Units and Indicator Lights

3SB3, Components for Actuators and Indicators, 22 mm

Contact block position for selector switches & 3-position push-pull

Selection and ordering data

Switch Position (front of switch)	Circuit	Contact Block	Block Position ¹⁾²⁾
--------------------------------------	---------	---------------	--------------------------------

Two-Position Selector Contact Block Selection

O	X	1 NO	3SB34 00-0B Any Position
X	O	1 NC	3SB34 00-0C Any Position
O X	X O	1 NO/1 NC	3SB34 00-0A Any Position
O O	X X	2 NO	3SB34 00-0D Any Position
X X	O O	2 NC	3SB34 00-0E Any Position

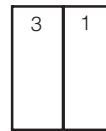
Three-Position Selector Contact Block Selection

X	O	O	1 NO	3SB34 00-0B 1 or 2A
X	O	X	1 NO	3SB34 00-0B 2
O	O	X	1 NO	3SB34 00-0B 3 or 2B
O	X	X	1 NC	3SB34 00-0C 1 or 2A
O	X	O	1 NC	3SB34 00-0C 2
X	X	O	1 NC	3SB34 00-0C 3 or 2B
X O	O X	O X	1 NO/1 NC	3SB34 00-0A 1 or 2A
X O	O X	X O	1 NO/1 NC	3SB34 00-0A 2
O X	O X	X O	1 NO/1 NC	3SB34 00-0A 3 or 2B
X X	O O	O O	2 NO	3SB34 00-0D 1 or 2A
X X	O O	X X	2 NO	3SB34 00-0D 2
O O	O O	X X	2 NO	3SB34 00-0D 3 or 2B
O O	X X	X X	2 NC	3SB34 00-0E 1 or 2A
O O	X X	O O	2 NC	3SB34 00-0E 2
X X	X X	O O	2 NC	3SB34 00-0E 3 or 2B

Three-Position Push-Pull Contact Block Selection

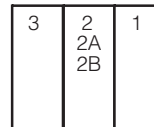
Out	Center	In		
X	O	O	1 NO	3SB34 00-0B 1 or 2A
O	O	X	1 NO	3SB34 00-0B 3 or 2B
X	X	O	1 NC	3SB34 00-0C 3 or 2B
O	X	X	1 NC	3SB34 00-0C 1 or 2A
O X	X O	X O	1 NO/1 NC	3SB34 00-0A 1 or 2A
X O	X O	O X	1 NO/1 NC	3SB34 00-0A 3 or 2B
O X	X O	O X	1 NO/1 NC	3SB34 00-0A 2

Rear View of Switch



Operator without Contact Block Carrier

For Mounting Contacts Directly to Operator



Operator with Contact block carrier

For Mounting Contacts with Carrier

X — Contact Closed
O — Contact Open
2 — Both Pushers Inserted
2A—Left Pusher Inserted
2B—Right Pusher Inserted



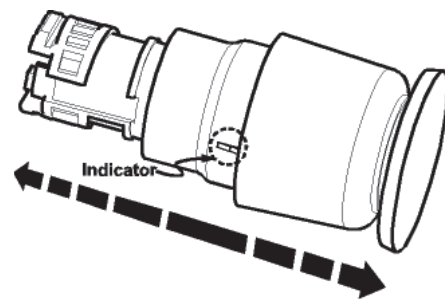
3SB39 01-0AC for operating center position. Shown with both pushers inserted (Sold separately)



3SB39 01-0AB included with illuminated devices

Orienting 3-Position Push-Pull Devices

1. Pull the operator to the out position and locate the device orientation mark.
2. With the mark located, insert into panel with the mark on the left side of the device as you face the panel.



1) Positions 2, 2A and 2B cannot be used on illuminated selector switches. Position is occupied by lamp module.

2) For illuminated transformer-type devices, an extra-deep lampholder is required when using two-element contact blocks.

Overview

Inscription of actuators and indicators

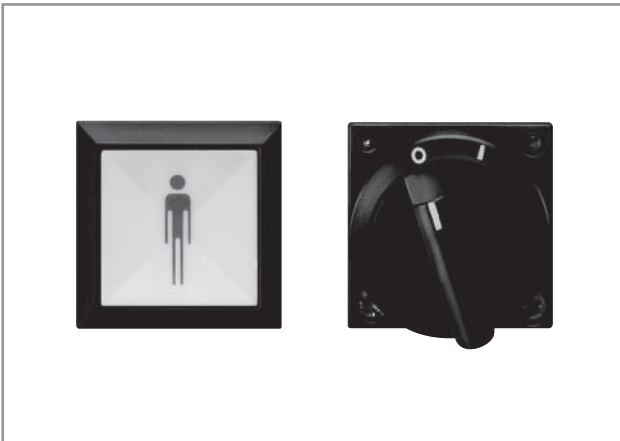
Actuators and indicators of plastic as well as metal version can be optionally inscribed with a laser.



Pushbutton (metal) with laser inscription

The actuators of the push buttons, illuminated push buttons, mushroom push buttons and illuminated mushroom push buttons can be inscribed as well as the lenses of the indicator lights.

Selector switches can be inscribed only if they are made of plastic (only one text line on the front ring).



Pushbutton and selector switch (plastic) with laser inscription

Version

A letter height of 4 mm is used as standard for text inscriptions:

The typeface used is Arial. Other letter heights and typefaces are possible, but must be specified when ordering.

For round buttons and lenses, the possible number of characters per line is:

- 10 characters for one line of text
- 8 characters for 2 lines of text
- 6 characters for 3 lines of text, but 10 characters in the middle line

On square buttons and lenses, 10 characters are possible per line.

Ordering notes

When ordering, supplement the Order No. of the actuator or the indicator light with **"-Z"** and an order code:

- Text line in upper/lower case, always upper case for beginning of line (e.g. "Lift off"): **Y10**
- Text in upper case (e.g. "LIFT OFF"): **Y11**
- Text in lower case (e.g. "lift off"): **Y12**
- Text in upper/lower case, all words begin with capital letters (e.g. "Lift Off"): **Y15**
- Symbol with number according to ISO 7000 or IEC 60417: **Y13**
- Any inscription or symbol according to order form supplement: **Y19**

Additional price per unit for Y10 to Y19 on request.

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language (see [ordering example 1](#)).

In the case of multi-line inscriptions, the text must be assigned to the respective line, e.g. "Z1 = Lift, Z2 = Lower". For long words you can also specify the end-of-line division.

Symbols can also be ordered with numbers according to ISO 7000 or IEC 60417 (see [ordering examples 2 and 3](#)).

For special symbols (order code Y19), a CAD drawing in DXF format can be submitted.

Ordering example 1

A round push button with the inscription "Reset" is required:

3SB30 00-0AA41-Z

Y10

Z = Reset (English)

Ordering example 2

A square push button inscribed with symbol No. 5389 according to IEC 60417 is required:

3SB31 10-0AA31-Z

Y13

Z = 5389 IEC

Ordering example 3

A round push button inscribed with symbol No. 1118 according to ISO 7000 is required:

3SB30 00-0AA41-Z

Y13

Z = 1118 ISO

Push Button Units and Indicator Lights

3SB3, Inscriptions, 22 mm

Laser inscriptions

Options

Customized inscriptions

The labels can be inscribed with text and symbols not listed in the ordering data.

Insert Labels

By default, a letter height of 4 mm (for a single line of text) or 3 mm (for 2 or 3 lines of text) is used for text inscriptions.

The typeface used is Arial. Other letter heights and typefaces are possible, but must be specified when ordering.

For round insert labels, the maximum possible number of characters per line is:

- 10 characters for one line of text
- 8 characters for 2 lines of text
- 6 characters for 3 lines of text, but 10 characters in the middle line

On square insert labels, 10 characters are possible per line.

Name plates

The following letter heights are used as standard for text inscriptions:

- Label size 12.5 mm × 27 mm: maximum 3 lines with letter height 4 mm (1-line), 3.5 mm (2-line) or 2.5 mm (3-line)
- Label size 27 mm × 27 mm: maximum 5 lines with letter height 4 mm (1- to 5-line)
- Label size 17.5 mm × 28 mm: maximum 3 lines with letter height 4 mm (1- and 2-line) or 3 mm (3-line)

Up to 11 characters per line are possible. The typeface used is Arial. Other letter heights and typefaces are possible, but must be specified when ordering.

Inscription labels for enclosures

A letter height of 4 mm is used as standard for text inscriptions (1 to 3 lines)

Up to 11 characters per line are possible. The typeface used is Arial. Other letter heights and typefaces are possible, but must be specified when ordering.

Ordering notes

Append the following codes to the Order No.:

- Text line(s) in upper/lower case, upper case always for beginning of line (e.g. "Lift off"): **K0Y**
- Text line(s) in upper case (e.g. "LIFT OFF"): **K1Y**
- Text line(s) in lower case (e.g. "lift off"): **K2Y**
- Text line(s) in upper/lower case, all words begin with upper case letters (e.g. "Lift Off"): **K5Y**
- Symbol with number according to ISO 7000 or IEC 60417: **K3Y**
- Any inscription or symbol according to order form supplement: **K9Y**

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

In the case of multi-line inscriptions, the text must be assigned to the respective line, e.g. "Z1 = Lift, Z2 = Lower". For long words you can also specify the end-of-line division ([see ordering example 1](#)).

Symbols can also be ordered with numbers according to ISO 7000 or IEC 60417 ([see ordering examples 2 and 3](#)).

For special symbols (order code K9Y), a CAD drawing in DXF format should be submitted to sirius-attach.aud@siemens.com

Ordering example 1

A label with 2 lines of text is required:

3SB39 02-1XZ
K1Y
Z1 = LIFT
Z2 = LOWER

Ordering example 2

A label inscribed with symbol No. 5011 according to IEC 60417 is required:

3SB39 02-1XZ
K3Y
Z = 5011 IEC

Ordering example 3

A label inscribed with symbol No. 1118 according to ISO 7000 is required:

3SB39 02-1XZ
K3Y
Z = 1118 ISO

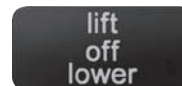
Examples for customized inscription



Two-line inscription in upper/lower case lettering (K0Y)
(Insert labels)



Single-line inscription in upper case lettering (K1Y)
(Name plates)



Three-line inscription in lower case lettering (K2Y)



Symbol number 5011 according to IEC 60417 (K3Y)



Any symbol according to order form supplement (K9Y)
(Inscription labels for enclosures)

Push Button Units and Indicator Lights

3SB3, Inscriptions, 22 mm

Inscriptions by laser printer

1

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Overview

Label inscriptions

Using the *Label Designer* software, which can be downloaded from the Internet, and the inscription labels for laser inscription you can create your own customized labels with a standard laser printer.

The self-adhesive or snap-on labels can be stuck or snapped onto the corresponding label holders (see [Name plates](#)). Round labels are provided for inserting in illuminated push buttons and switches.

The labels are suitable for printing with one to three lines of text or symbols.

For applications with more exacting requirements we recommend factory-printed inscription labels and insert labels (laser-printed or engraved depending on the type).

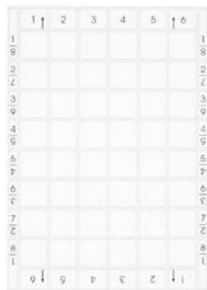
You can find the *Label Designer* software on the Internet at:

www.siemens.com/sirius-label-designer

Selection and ordering data

Version	Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS
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Labels for printing



Insert labels for inserting in round illuminated push buttons and illuminated switches	Milky	A	3SB39 01-2AB		100	480 units
Inscription labels 12.5 mm x 27 mm for sticking onto label holder	White	A	3SB39 02-2AA		100	480 units
Inscription labels 27 mm x 27 mm for sticking onto label holder	White	A	3SB39 03-2AA		100	480 units
Inscription labels 17.5 mm x 28 mm for snapping onto label holder	White	A	3SB39 05-2AA		100	720 units
Inscription labels 22 mm x 22 mm for sticking onto enclosure	White	A	3SB39 06-2AA		100	700 units

Push Button Units and Indicator Lights

3SB3, Inscriptions, 22 mm

Insert labels

Overview

Push buttons (clear) and illuminated push buttons with a flat button can be fitted with insert labels for identification purposes, but indicator lights cannot.

These insert labels are made of clear, transparent plastic with black inscription; they can be fitted in any 90° angle.

Inscriptions

The inscriptions have upper case initial letters. Graphic symbols, including those not listed in the catalog, are according to ISO 7000 or IEC 60417 ([see page 10/72](#)).

The insert labels without inscription are suitable for user marking with permanent pen.

Selection and ordering data

Inscription/Symbol		Symbol No.	DT	Round range		DT	Square range	
				Order No.	Price per PU		Order No.	Price per PU
Insert labels								
<i>For self-inscription</i>								
	Blank		B	3SB19 01-4AS		B	3SB39 40-4AA	
<i>With inscription</i>								
	On		B	3SB19 01-4EB		B	3SB39 40-4EB	
	Off		B	3SB19 01-4EC		B	3SB39 40-4EC	
	Up		B	3SB19 01-4ED		B	3SB39 40-4ED	
	Down		B	3SB19 01-4EE		B	3SB39 40-4EE	
	Forward		B	3SB19 01-4EF		B	3SB39 40-4EF	
	Reverse		B	3SB19 01-4EG		B	3SB39 40-4EG	
	Right		C	3SB19 01-4EH			—	
	Left		C	3SB19 01-4EJ			—	
	Open		B	3SB19 01-4EP		B	—	
	Close		B	3SB19 01-4EQ			—	
	Fast		B	3SB19 01-4ER			—	
	Slow		B	3SB19 01-4ES			—	
	Running		B	3SB19 01-4EV			3SB39 40-4EV	
	Fault		B	3SB19 01-4EW			3SB39 40-4EW	
	Reset		B	3SB19 01-4EM		B	3SB39 40-4EM	
	Test		B	3SB19 01-4EN			—	
	Start		B	3SB19 01-4EK		B	3SB39 40-4EK	
	Stop		B	3SB19 01-4EL		B	3SB39 40-4EL	
<i>With graphic symbol</i>								
	O (Off)		5008 IEC	B	3SB19 01-4MB	B	3SB39 40-4MB	
	I (On)		5007 IEC	B	3SB19 01-4MC	B	3SB39 40-4MC	
	II (On)		—	B	3SB19 01-4MD	B	3SB39 40-4MD	
	Electric motor		0011 ISO	B	3SB19 01-4PA		3SB39 40-4PA	
	Motion in direction of arrow		5022 IEC	B	3SB19 01-4NA	B	3SB39 40-4NA	
	Increase, plus		5005 IEC	B	3SB19 01-4NG	B	3SB39 40-4NG	
	Decrease, minus		5006 IEC	B	3SB19 01-4MC	B	3SB39 40-4MC	
<i>With customized inscription</i>								
	For inscriptions or symbols see "Options"							
	• Text line(s) or symbol with No.			B	3SB19 01-4AZ K0Y, K1Y, K2Y, K3Y or K5Y	B	3SB39 40-4AZ K0Y, K1Y, K2Y, K3Y or K5Y	
	• Any inscription or symbol			B	K9Y	B	K9Y	

For customized inscriptions [see page 10/72](#).

Overview

The name plates consist of a black plastic label holder and an inscription label (black with white print or silver-colored with black print) for sticking or snapping in place. They are not suitable for EMERGENCY-STOP push buttons.

Note mounting dimensions!

Inscriptions

The inscriptions have upper case initial letters. The typeface is Arial. Graphic symbols, including those not listed in the tables, are according to ISO 7000 or IEC 60417 ([see page 10/72](#)).

Self-adhesive labels

There are 2 sizes available for the round and square ranges:

- Label holders 30 mm × 45 mm × 7 mm with inscription label 12.5 mm × 27 mm.
- Label holders 30 mm × 60 mm × 7 mm with inscription label 27 mm × 27 mm.

Snap-on labels

The following version is available for the round range:

- Label holders 29.8 mm × 51 mm × 3 mm with inscription label 17.5 mm × 28 mm (inscription area: 17.5 mm × 27 mm)

Selection and ordering data

Inscriptions	DT	Black Order No.	DT	Silver-colored Order No.
Inscription labels, self-adhesive, 12.5 mm × 27 mm				
	For self-inscription			
	Blank	▶ 3SB39 02-1AA	B	3SB19 01-2AA
	With inscription			
On	B	3SB39 02-1EB	B	3SB19 01-2EB
Off	B	3SB39 02-1EC	B	3SB19 01-2EC
Up	B	3SB39 02-1ED	B	3SB19 01-2ED
Down	B	3SB39 02-1EE	B	3SB19 01-2EE
Emerg. Stop		3SB39 02-1AU		
Hand O Auto		3SB39 02-1BE		
Jog		3SB39 02-1BG		
Man O Auto		3SB39 02-1ET		
Power Off		3SB39 02-1BH		
Power On		3SB39 02-1BJ		
Reset		3SB39 02-1EM		
Run		3SB39 02-1EX		
Forward	B	3SB39 02-1EF		
Reverse	B	3SB39 02-1EG		
Right	B	3SB39 02-1EH	B	3SB19 01-2EH
Left	B	3SB39 02-1EJ	B	3SB19 01-2EJ
Open	B	3SB39 02-1EP	B	3SB19 01-2EP
Close	B	3SB39 02-1EQ	B	3SB19 01-2EQ
Fast		—	B	3SB19 01-2ER
Slow		—	B	3SB19 01-2ES
Stop	B	3SB39 02-1EK	B	3SB19 01-2EK
Start	B	3SB39 02-1EL	B	3SB19 01-2EL
Test	B	3SB39 02-1EN	B	3SB19 01-2EN
Running		—	B	3SB19 01-2EV
Fault	B	3SB39 02-1EW	B	3SB19 01-2EW
Reset		—	B	3SB19 01-2EM
Stop Start	B	3SB39 02-1BC	B	3SB19 01-2BC
Hand Auto	B	3SB39 02-1BA	B	3SB19 01-2BA
Man Auto	B	3SB39 02-1EU	B	3SB19 01-2EU
Hand O Auto		—	B	3SB19 01-2BE
Man O Auto		—	B	3SB19 01-2ET
Off On		3SB39 02-1EA		

For label holders [see page 10/78](#).

For customized inscriptions [see page 10/72..](#)

3SB3, Inscriptions, 22 mm

Name plates

Inscriptions		DT	Black Order No.	DT	Silver-colored Order No.
Inscription labels, self-adhesive, 12.5 mm × 27 mm					
With graphic symbol					
	O	B	3SB39 02-1MB	B	3SB19 01-2MB
	I	B	3SB39 02-1MC	B	3SB19 01-2MC
	II		—	C	3SB19 01-2MD
	III		—	B	3SB19 01-2ME
	O I	B	3SB39 02-1MF	B	3SB19 01-2MF
	I O II	B	3SB39 02-1MG	B	3SB19 01-2MG
	1 O 2		—	B	3SB19 01-2MK
	1 2	B	3SB39 02-1ML		—
		B	3SB39 02-1NJ	B	3SB19 01-2NA
		B	3SB39 02-1NA	B	3SB19 01-2NJ
With customized inscription					
For inscriptions or symbols see "Options"			3SB39 02-1XZ		3SB19 01-2XZ
• Text line(s)		B	K0Y	B	K0Y
• Text line(s) or symbol with No.		B	K1Y, K2Y, K3Y or K5Y	B	K1Y. K2Y. K3Y or K5Y
• Any inscription or symbol		B	K9Y	B	K9Y
Inscriptions		DT	Black Order No.	DT	Silver-colored Order No.
Inscription labels, self-adhesive, 27 mm × 27 mm					
For self-inscription					
	Blank	B	3SB39 03-1AA	B	3SB19 06-2AA
With inscription					
	On	B	3SB39 03-1EB		—
	Off	B	3SB39 03-1EC		—
	Start	B	3SB39 03-1EL		—
	Emerg. Stop	B	3SB39 03-1AU		—
	Hand O Auto	B	3SB39 03-1BE		—
	Jog	B	3SB39 03-1BG		—
	Man O Auto	B	3SB39 03-1ET		—
	Power Off	B	3SB39 03-1BH		—
	Power On	B	3SB39 03-1BJ		—
	Reset	B	3SB39 03-1EM		—
	Run	B	3SB39 03-1EX		—
	Forward	B	3SB39 03-1EF		—
	Reverse	B	3SB39 03-1EG		—
	Right	B	3SB39 03-1EH		—
	Left	B	3SB39 03-1EJ		—
	Up	B	3SB39 03-1ED		—
	Down	B	3SB39 03-1EE		—
	Open	B	3SB39 03-1EP		—
	Close	B	3SB39 03-1EQ		—
	Test	B	3SB39 03-1EN		—
	Stop	B	3SB39 03-1EK		—
	Man Auto	B	3SB39 03-1EU		—
	Off On	B	3SB39 03-1EA		—
	Stop Start	B	3SB39 03-1BC		—
	Hand Auto	B	3SB39 03-1BA		—
With graphic symbol					
	O	B	3SB39 03-1MB		—
	O I	B	3SB39 03-1MF		—
		B	3SB39 03-1NA		—
With customized inscription					
For inscriptions or symbols see "Options"			3SB39 03-1XZ		3SB19 06-2XZ
• Text line(s)		B	K0Y	B	K0Y
• Text line(s) or symbol with No.		B	K1Y, K2Y, K3Y or K5Y	B	K1Y. K2Y. K3Y or K5Y
• Any inscription or symbol		B	K9Y	B	K9Y

For label holders [see page 10/78](#).
For customized inscriptions [see page 10/72](#).

Push Button Units and Indicator Lights

3SB3, Inscriptions, 22 mm

Name plates

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Inscriptions	DT	Black Order No.	DT	Silver-colored Order No.
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Inscription labels, for snapping on,
17.5 mm × 28 mm

	For self-inscription			
	Blank	B	3SB39 05-1AA	B 3SB19 04-2AA
	With inscription			
	On	B	3SB39 05-1EB	B 3SB19 04-2EB
	Off	B	3SB39 05-1EC	B 3SB19 04-2EC
	Up	B	3SB39 05-1ED	—
	Down	B	3SB39 05-1EE	—
	Forward	B	3SB39 05-1EF	B —
	Reverse	B	3SB39 05-1EG	B 3SB19 04-2EG
	Right	B	3SB39 05-1EH	—
	Left	B	3SB39 05-1EJ	—
	Open	B	3SB39 05-1EP	—
	Close	B	3SB39 05-1EQ	—
	Stop	B	3SB39 05-1EK	B 3SB19 04-2EK
	Start	B	3SB39 05-1EL	B 3SB19 04-2EL
	Test	—	—	B 3SB19 04-2EN
	Running	B	3SB39 05-1EV	—
	Fault	B	3SB39 05-1EW	B 3SB19 04-2EW
	Reset	—	—	B 3SB19 04-2EM
	Stop Start	B	3SB39 05-1BC	B 3SB19 04-2BC
	Hand Auto	B	3SB39 05-1BA	B 3SB19 04-2BA
	Man Auto	B	3SB39 05-1EU	C 3SB19 04-2EU
	Man O Auto	—	—	B 3SB19 04-2ET
	With graphic symbol			
	O	B	3SB39 05-1MB	B 3SB19 04-2MB
	I	B	3SB39 05-1MC	B 3SB19 04-2MC
	O I	B	3SB39 05-1MF	B 3SB19 04-2MF
	I O II	—	—	B 3SB19 04-2MG
	1 O 2	—	—	B 3SB19 04-2MK
		B	3SB39 05-1NA	B 3SB19 04-2NA
		B	3SB39 05-1NJ	B 3SB19 04-2NJ
	With customized inscription			
	For inscriptions or symbols see "Options"		3SB39 05-1XZ	3SB19 04-2XZ
	• Text line(s)	B	K0Y	B K0Y
	• Text line(s) or symbol with No.	B	K1Y, K2Y, K3Y or K5Y	B K1Y, K2Y, K3Y or K5Y
	• Any inscription or symbol	B	K9Y	B K9Y

For label holders [see page 10/78](#).

For customized inscriptions [see page 10/72](#).

Push Button Units and Indicator Lights

3SB3, Inscriptions, 22 mm

Name plates

Version		DT	Black	PU (UNIT, SET, M)	PS
			Order No.		
Label holders for inscription labels 12.5 mm × 27 mm					
	For round range, flat	B	3SB39 22-0AV	100	10 units
	For potentiometer drives 3SB10 00-7CH07 ¹⁾	B	3SB39 22-0AS	1	1 unit
	For square range, flat	B	3SB39 42-0AX	100	5 units
Label holders for inscription labels 27 mm × 27 mm					
	For round range, flat	B	3SB39 23-0AV	100	10 units
	For round range, raised	C	3SB39 23-0AX	1	10 units
	For potentiometer drives, flat	B	3SB39 23-0AS	1	1 unit
	For square range, flat	B	3SB39 43-0AX	100	1 unit
Label holders for inscription labels 17.5 mm × 28 mm					
	For round design	▶	3SB39 25-0AV	100	10 units

3SB39 22-0AV

3SB39 23-0AV

3SB39 25-0AV

¹⁾ This label holder can also be used for push buttons with dust covers if the front panel thickness of 3 mm is not exceeded.

Push Button Units and Indicator Lights

3SB3, Accessories and spare parts, 22 mm

Buttons and lenses

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Selection and ordering data

Version	Color	DT	Order No.	PU (UNIT, SET, M)	PS
Buttons and lenses for round version ¹⁾					
	Buttons, flat for round illuminated push buttons and illuminated switches, plastic version	Red	B	3SB39 30-0CA2	1 10 units
		Yellow	B	3SB39 30-0CA3	1 10 units
		Green	B	3SB39 30-0CA4	1 10 units
		Blue	B	3SB39 30-0CA5	1 10 units
		White	B	3SB39 30-0CA6	1 10 units
		Clear	B	3SB39 30-0CA7	1 10 units
	Buttons, flat for round push buttons and switches, metal version	Black	B	3SB39 30-0EA1	1 10 units
		Red	B	3SB39 30-0EA2	1 10 units
		Yellow	B	3SB39 30-0EA3	1 10 units
		Green	B	3SB39 30-0EA4	1 10 units
		Blue	B	3SB39 30-0EA5	1 10 units
		White	B	3SB39 30-0EA6	1 10 units
		Clear	B	3SB39 30-0EA7	1 10 units
	Buttons, raised for round illuminated push buttons and illuminated switches, plastic version	Red	B	3SB39 30-0DA2	1 10 units
		Green	B	3SB39 30-0DA4	1 10 units
		Clear	B	3SB39 30-0DA7	1 10 units
	Buttons, raised for round push buttons and switches, metal version	Black	D	3SB39 30-0FA1	1 10 units
		Red	C	3SB39 30-0FA2	1 10 units
		Yellow	C	3SB39 30-0FA3	1 10 units
		Green	C	3SB39 30-0FA4	1 10 units
		Blue	C	3SB39 30-0FA5	1 10 units
		White	C	3SB39 30-0FA6	1 10 units
		Clear	C	3SB39 30-0FA7	1 10 units
	Buttons, flat for round illuminated push buttons and illuminated switches, metal version	Amber	B	3SB39 30-0GA0	1 10 units
		Red	B	3SB39 30-0GA2	1 10 units
		Yellow	B	3SB39 30-0GA3	1 10 units
		Green	B	3SB39 30-0GA4	1 10 units
		Blue	B	3SB39 30-0GA5	1 10 units
		White	B	3SB39 30-0GA6	1 10 units
		Clear	B	3SB39 30-0GA7	1 10 units
	Buttons, flat, solvent-resistant²⁾ , for round illuminated push buttons and switches, metal version	Red	B	3SB39 30-0GA20-0PA0	1 10 units
		Yellow	B	3SB39 30-0GA30-0PA0	1 10 units
		Green	B	3SB39 30-0GA40-0PA0	1 10 units
		Blue	B	3SB39 30-0GA50-0PA0	1 10 units
		White	B	3SB39 30-0GA60-0PA0	1 10 units
		Clear	B	3SB39 30-0GA70-0PA0	1 10 units
	Buttons, raised for round illuminated push buttons and illuminated switches, metal version	Amber	C	3SB39 30-0HA0	1 10 units
		Red	C	3SB39 30-0HA2	1 10 units
		Yellow	C	3SB39 30-0HA3	1 10 units
		Green	C	3SB39 30-0HA4	1 10 units
		Blue	C	3SB39 30-0HA5	1 10 units
		White	C	3SB39 30-0HA6	1 10 units
		Clear	C	3SB39 30-0HA7	1 10 units
	Lenses, smooth For round indicator lights, plastic and metal version	Amber	C	3SB39 30-6BA0	1 10 units
		Red	B	3SB39 30-6BA2	1 10 units
		Yellow	B	3SB39 30-6BA3	1 10 units
		Green	B	3SB39 30-6BA4	1 10 units
		Blue	B	3SB39 30-6BA5	1 10 units
		White	B	3SB39 30-6BA6	1 10 units
		Clear	B	3SB39 30-6BA7	1 10 units
	Lenses with concentric rings For round indicator lights, plastic and metal version	Amber	B	3SB39 30-6CA0	1 10 units
		Red	B	3SB39 30-6CA2	1 10 units
		Yellow	B	3SB39 30-6CA3	1 10 units
		Green	B	3SB39 30-6CA4	1 10 units
		Blue	B	3SB39 30-6CA5	1 10 units
		White	B	3SB39 30-6CA6	1 10 units
		Clear	B	3SB39 30-6CA7	1 10 units
Buttons and lenses for square version					
	Buttons, flat For square illuminated push buttons and illuminated switches, plastic version	Red	B	3SB39 50-0CA2	1 10 units
		Yellow	B	3SB39 50-0CA3	1 10 units
		Green	B	3SB39 50-0CA4	1 10 units
		Blue	B	3SB39 50-0CA5	1 10 units
		White	B	3SB39 50-0CA6	1 10 units
		Clear	B	3SB39 50-0CA7	1 10 units
	Lenses, smooth For square indicator lights, plastic version	Red	B	3SB39 50-6AA2	1 10 units
		Yellow	B	3SB39 50-6AA3	1 10 units
		Green	B	3SB39 50-6AA4	1 10 units
		Blue	B	3SB39 50-6AA5	1 10 units
		White	B	3SB39 50-6AA6	1 10 units
		Clear	B	3SB39 50-6AA7	1 10 units

¹⁾ In scope of supply of push buttons or indicator lights.

²⁾ Not suitable for laser inscription.

Push Button Units and Indicator Lights

3SB3, Accessories and spare parts, 22 mm

Lamps, acoustic signal transformers and keys

Selection and ordering data

Version	Rated voltage	Color	DT	Order No.	PU (UNIT, SET, M)	PS
V						
Lamps, BA 9s bases¹⁾						
 3SB19 02-0AY	Incandescent lamps 1.2 W , length up to 28 mm, max. bulb diameter 10 mm	24 AC/DC	Clear	A	3SB19 02-0AY	1 10 units
	Incandescent lamps 2 W , length up to 28 mm, max. bulb diameter 10 mm	6 AC/DC	Clear	A	52AABN	1 1 units
		12 AC/DC		A	52AACN	1 1 units
		24 AC/DC		A	52AADN1	1 1 units
		30 AC/DC		B	3SB19 02-2AF	1 10 units
		48 AC/DC		B	3SB19 02-1AP	1 10 units
		60 AC/DC		A	3SR94 24	1 10 units
 3SB39 01-1PA	Incandescent lamps 2.6 W , length 28 mm, bulb diameter 10 mm	110 ... 130 AC/DC ²⁾	Clear	►	3SX1 731	1 10 units
	Incandescent lamps 3 W , length 28 mm, bulb diameter 10 mm	120V #120 MB	Clear	►	52AAENC	1 1 units
	Multi-incandescent lamps 1.2 W , endurance 25 000 h, high resistance to vibration	24 AC/DC		B	3SB19 02-2BU	1 10 units
	LED lamps, super-bright Length up to 28 mm, max. bulb diameter 10 mm, max. operational current 15 mA	24 V AC/DC	Red	►	52AED2	1 1 units
			Green	B	52AED3	1 1 units
			Yellow	►	52AED4	1 1 units
			White	B	52AEDB	1 1 units
			Blue	►	52AED5	1 1 units
		48 AC/DC	Red	B	3SB39 01-1CC	1 10 units
			Yellow	B	3SB39 01-1BC	1 10 units
			Green	B	3SB39 01-1DC	1 10 units
			Blue	B	3SB39 01-1PC	1 10 units
			White	B	3SB39 01-1QC	1 10 units
		120 AC/DC	Red	B	52AEE2	1 1 units
			Green	B	52AEE3	1 1 units
			Yellow	B	52AEE4	1 1 units
			White	B	52AEEB	1 1 units
			Blue	B	52AEE5	1 1 units
		230 AC, 110 ... 160 DC, if X1 at "+"	Red	B	3SB39 01-1CF	1 10 units
			Yellow	B	3SB39 01-1BF	1 10 units
			Green	B	3SB39 01-1DF	1 10 units
			Blue	B	3SB39 01-1PF	1 10 units
			White	B	3SB39 01-1QF	1 10 units
		230 AC/DC	Red	B	3SB39 01-1CG	1 10 units
			Yellow	B	3SB39 01-1BG	1 10 units
			Green	B	3SB39 01-1DG	1 10 units
			Blue	B	3SB39 01-1PG	1 10 units
			White	B	3SB39 01-1QG	1 10 units
 3SB19 02-4MC	LED lamps Length up to 28 mm, max. bulb diameter 10 mm, max. operational current 15 mA	22 ... 32 DC	Red	D	3SB19 02-4AJ	1 10 units
	LED lamps, flashing (1.4 Hz) , length up to 28 mm, bulb diameter 10 mm, operational current 24 ... 29 mA	24 DC	Yellow	D	3SB19 02-4BJ	1 10 units
			Green	C	3SB19 02-4CJ	1 10 units
 3SX1 703	Glow lamps³⁾ length 28 mm, bulb diameter 10 mm, operational current approx. 1.8 mA	110 AC	Clear	A	3SX1 703	1 10 units
		220 AC	Clear	A	3SX1 701	1 10 units
		220 AC	Green	C	3SX1 702	1 10 units
 3SB19 02-2AD	Lamp extractors For lamps with BA 9s base			►	3SB19 02-2AD	1 1 unit

¹⁾ Essential accessories when using lamp holders with BA 9s base and delivery without lamp.

²⁾ Also for 230 V when used with a 3SB34 00-1C voltage reducer.

³⁾ Due to the inherent orange color of glow lamps and their lower luminance level compared to incandescent lamps, it is recommended that they should only be used with clear or red screw lenses and in areas where ambient light levels are not very high.

Push Button Units and Indicator Lights

3SB3, Accessories and spare parts, 22 mm

Lamps, acoustic signal transformers and keys

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Version	Rated voltage	Color	DT	Order No.	PU (UNIT, SET, M)	PS
V						
Lamps, Wedge bases ¹⁾						
 3SB29 08-1AE	Incandescent lamps Wedge base W2 × 4.6 d, 1.0 W	6 AC/DC	Clear	C	3SB29 08-1AA	100 10 units
		12 AC/DC		B	3SB29 08-1AB	100 10 units
		24 AC/DC		▶	3SB29 08-1AC	100 10 units
		30 AC/DC		A	3SB29 08-1AD	100 10 units
		48 AC/DC		B	3SB29 08-1AE	1 10 units
		60 AC/DC		B	3SB29 08-1AF	1 10 units
 3SB39 01-1SB	LED lamps, super-bright Wedge base W2 × 4.6 d, operational current 10 mA	24 AC/DC	Red	B	3SB39 01-1SB	1 10 units
			Yellow	B	3SB39 01-1RB	1 10 units
			Green	B	3SB39 01-1TB	1 10 units
			White	B	3SB39 01-1UB	1 10 units
			Blue	B	3SB29 08-1BD	1 10 units
		28 AC/DC	Red	B	3SB39 01-1SE	1 10 units
			Yellow	B	3SB39 01-1RE	1 10 units
			Green	B	3SB39 01-1TE	1 10 units
			White	B	3SB39 01-1UE	1 10 units
			Blue	D	3SB39 01-1VE	1 10 units
 3SB29 08-2AB	Lamp extractors for lamps with bases W2 × 4.6 d			▶	3SB29 08-2AB	1 1 unit
 3SB19 02-1AU	Lamp adapters For fitting a lamp with a wedge base socket into a BA 9s lamp holder			C	3SB19 02-1AU	1 1 unit
Acoustic signal transformers, BA 9s base						
 3SB19 02-2BN	Acoustic signal transformers for acoustic signaling devices ²⁾ operational current 25 mA, 0.6 W, sound pressure 80 dB/10 cm	24 ... 28 DC		B	3SB19 02-2BN	1 1 unit

¹⁾ Can be used with lamp adapters in lamp holders with BA 9s base.

²⁾ For increased protection, the IP65 acoustic signaling device (complete unit) can be used.

Version Lock	Lock No.	Color	DT	Order No.	PU (UNIT, SET, M)	PS
Manufacturer						
Keys for actuators¹⁾						
 3SY1 054	RONIS	SB 30	—	B	3SB39 10-4A	1 1 unit
	BKS	S1	—	A	3SY1 066	1 1 unit
	CES	LSG 1	—	B	3SB19 10-2F	1 1 unit
		SSG 10	—	B	3SY1 054	1 1 unit
		SSP 9	—	A	3SY1 052	1 1 unit
	O.M.R.	73038	Light blue	C	3SB19 10-2L	1 1 unit
		73037	Red	B	3SB19 10-2M	1 1 unit
		73034	Black	B	3SB19 10-2N	1 1 unit
		73033	Yellow	D	3SB19 10-2P	1 1 unit

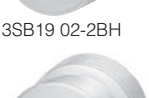
¹⁾ Included in scope of supply of the key-operated switches and the EMERGENCY-STOP mushroom push buttons with key-operated switch. Also available with special lock. Supplement Order No. with "-Z" and quote the required lock in plain text. Additional price on request. This does not include locks for VW and main and general locking systems.

Push Button Units and Indicator Lights

3SB3, Accessories and spare parts, 22 mm

Protective covers

Selection and ordering data

Version	Use	Color	DT	Order No.	PU (UNIT, SET, M)	PS
Protective caps¹⁾, degree of protection IP67						
<i>Material: elastolan</i>						
 3SB39 21-0AJ	Protective caps For round version	Flat button (plastic)	Clear	B	3SB39 21-0AJ	1 1 unit
		Flat button (metal), raised button (plastic)	Clear	B	3SB39 21-0AM	1 1 unit
	• PVC	Raised button (metal)	Clear	C	3SB19 02-2AN	1 1 unit
 3SB39 41-0AJ	Protective caps For square version	Flat button (plastic)	Clear	B	3SB39 41-0AJ	1 1 unit
<i>Material: silicone</i>						
 3SB39 21-0AH	Protective caps For round version	Flat button (plastic)	Clear	B	3SB39 21-0AH	1 1 unit
 3SB19 02-0AK		Flat button (metal), raised button (plastic)	Clear	B	3SB19 02-0AK	1 1 unit
 3SB19 02-0AN		Raised button (metal)	Clear	B	3SB19 02-0AN	1 1 unit
 3SB39 21-0BA	Protective caps For round version	Selector switch (plastic and metal, normal handle)	Clear	B	3SB39 21-0BA	1 1 unit
 3SB19 02-2BH	Protective caps For round version	Mushroom push-pull button, Ø 40 mm (plastic and metal)	Clear	B	3SB19 02-2BH	1 1 unit
 3SB39 21-0BU		EMERGENCY-STOP mushroom pushbutton, Ø 40 mm (plastic and metal)	Clear	B	3SB39 21-0BU	1 1 unit
 3SB39 41-0AH	Protective caps For square version	Flat button (plastic)	Clear	B	3SB39 41-0AH	1 1 unit

¹⁾ Protective caps are not suitable for use with 3SB38 plastic enclosures.
With 3SB38 metal enclosures, protective caps can only be used with
3SB34 00 single-pole contact blocks for front plate mounting.
Not to be used with label holder.

Push Button Units and Indicator Lights

3SB3, Accessories and spare parts, 22 mm

Protective covers

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Version	Use	Color	DT	Order No.	PU (UNIT, SET, M)	PS
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Other protective caps¹⁾



3SB19 02-0AL



3SB19 02-2AR



3SB39 21-0BT

Sealable caps

For round version

Flat button (plastic)
Flat button (metal),
raised button (plastic)

Black B
Clear B

3SB19 02-0AL
3SB19 02-2AR

1 1 unit
1 1 unit

Dust covers

For use in dusty environments

BKS, CES, O.M.R. key-operated switch

Clear B

3SB39 21-0BT

1 1 unit

Protective collars for front plates



3SB39 21-0AX



3SB39 21-0CG



3SB39 21-0AS

Protective collars for EMERGENCY-STOP²⁾

For round version

EMERGENCY-STOP
mushroom push button
without key-operated switch
EMERGENCY-STOP
mushroom pushbutton
with key-operated switch

Yellow ▶
Gray C
Yellow B

3SB39 21-0AK
3SB39 21-0AP
3SB39 21-0AX

1 1 unit
1 1 unit
1 1 unit

Protective collars for EMERGENCY-STOP for 5 padlocks²⁾

For round version

3SB3...-1AA20
EMERGENCY-STOP
mushroom push button

Yellow ▶

3SB39 21-0CG

1 1 unit

Sun collars

For round version

Illuminated push buttons

Black B

3SB39 21-0AS

1 1 unit

Blanking plugs for spare command points for front plates



3SB39 21-0AA



3SB39 41-0AA



3SB19 02-0AQ

Blanking plugs

For round version

Plastic version

Black ▶

3SB39 21-0AA

1 10 units

Blanking plugs

For square version

Plastic version

Black B

3SB39 41-0AA

1 1 unit

Blanking plugs (plastic) for round version

Metal version

Alumi-nized

3SB19 02-0AQ

1 10 units

¹⁾ Not suitable for mounting in 3SB38 enclosures.
Not to be used with label holder.

²⁾ The protective collar must only be used to protect against inadvertent actuating and must be fitted to allow unimpeded actuation of the EMERGENCY-STOP mushroom pushbutton.

Push Button Units and Indicator Lights

3SB3, Accessories and spare parts, 22 mm

Miscellaneous accessories

Selection and ordering data

Version	Use	Inscriptions	DT	Order No.	PU (UNIT, SET, M)	PS
Yellow name plates for EMERGENCY-STOP						
<i>For use on front plates</i>						
	Name plates, round Self-adhesive, external diameter 60 mm, internal diameter 23 mm	EMERGENCY-STOP mushroom push button (round version)	Blank	B	3SB39 21-0DY	1 1 unit
3SB39 21-0AC	Name plates, round Self-adhesive, external diameter 80 mm, internal diameter 23 mm	EMERGENCY-STOP mushroom push button (round version)	Blank	B	3SB39 21-0AB	1 1 unit
	Name plates, round Self-adhesive, external diameter 80 mm, internal diameter 23 mm	EMERGENCY-STOP mushroom push button (round version)	EMERGENCY STOP	B	3SB39 21-0AD	1 1 unit
3SB39 21-0BW	Name plates, round Self-adhesive, external diameter 80 mm, cutout 26 mm x 26 mm	EMERGENCY-STOP mushroom push buttons (square version)	Blank	B	3SB39 41-0AB	1 1 unit
	Name plates, round Self-adhesive, external diameter 80 mm, cutout 26 mm x 26 mm	EMERGENCY-STOP mushroom push buttons (square version)	EMERGENCY STOP	B	3SB39 41-0AD	1 1 unit
	Name plates, round 1 mm thick, external diameter 75 mm, internal diameter 22.5 mm	EMERGENCY-STOP mushroom push button (round version)	Blank	B	3SB19 02-2BA	1 1 unit
	Name plates, round Self-adhesive, external diameter 60 mm, internal diameter 23 mm ¹⁾	EMERGENCY-STOP mushroom push button (round version)	Blank	B	3SB39 21-0DA	1 1 unit
3SB39 21-0DA	Illuminated, suitable as signaling device for EMERGENCY-STOP, with plug-in connection for 24 V AC/DC ²⁾	EMERGENCY STOP	EMERGENCY STOP	B	3SB39 21-0DD	1 1 unit
Inscription labels						
	Inscription labels For supporting dust resistance	Contact blocks		B	3SB39 01-0CH	100 10 units
3SB39 01-0CH	Unit labeling plates	Contact blocks		B	3TX4 210-0H	100 100 units
						
3TX4 210-0H	Lockouts					
	Locking cover	Prevents access to pushbuttons, knob type selector switches and will work with both metal and plastic devices			3SB39 21-0BS	1 1 unit
3SB3921-0BS	Lockout	for metal flush pushbutton for metal extended pushbutton for metal mushroom cap (40 mm) pushbutton			3SB39 21-0BG 3SB39 21-0BH 3SB39 21-0BJ	1 1 unit 1 1 unit 1 1 unit
						
3SB3921-0BG	2 Position Selector Switch Lockouts³⁾	Lock in left position Lock in right position			3SB39 21-0BK 3SB39 21-0BL	1 1 unit 1 1 unit
						
3SB3921-0BK	3 Position Selector Switch Lockouts³⁾	Lock in left position Lock in center position Lock in right position Lock out -left position only Lock out -right position only			3SB39 21-0BM 3SB39 21-0BN 3SB39 21-0BP 3SB39 21-0BQ 3SB39 21-0BR	1 1 unit 1 1 unit 1 1 unit 1 1 unit 1 1 unit
						
3SB3921-0BN						

1) For front panel thickness of max. 4 mm.

2) The illuminated label can also be operated through the AS-Interface F adapter ([see page 10/97](#)).

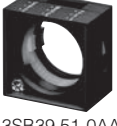
3) For metal devices only.

Push Button Units and Indicator Lights

3SB3, Accessories and spare parts, 22 mm

Miscellaneous accessories

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3
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9
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Version	Use	DT	Order No.	PU (UNIT, SET, M)	PS
Holders and pressure plates					
	Holders For snapping on 3 blocks ¹⁾	Push buttons, push-pull buttons, mushroom push buttons with front plate mounting	▶ 3SB39 01-0AB	100	20 units
	Holders with pressure plate For actuating the central contact block of 3 contact blocks ²⁾	Selector switches, key-operated switches and twin push buttons with front plate mounting	▶ 3SB39 01-0AC	100	10 units
	Pressure plates For actuating the central contact block of 3 contact blocks ²⁾	Selector switches and key-operated switches for use on PCBs or with base mounting	B 3SB39 01-0AW	100	10 units
Holders for commanding and signaling elements³⁾					
	Holders For plastic version, round	As-supplied state for front panel thickness 1 ... 4 mm	▶ 3SB39 31-0AA	1	10 units
	Holders For plastic version, square		B 3SB39 51-0AA	1	1 unit
	Holders For metal version, round		▶ 3SB39 31-0AC	1	10 units
	Grounding screws For grounding metal actuators for fitting in front plates made of non-conducting materials		B 3SB39 21-0BD	100	50 units
	Bolt for enclosure Ring nut wrench		3SB39 31-0AB		
Guards					
	Pushbutton Guard	For standard pushbuttons, flush and extended. Also fits 30mm mushroom head devices	3SB39 21-0BE	1	1 unit
	Guard	For 40mm mushroom head devices standard momentary or 2 position push-pull	3SB39 21-0BF	1	1 unit

1) The holder for illuminated commanding devices is included in the scope of supply.

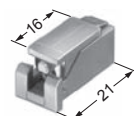
2) The pressure plates can be removed one by one to meet individual requirements.

3) The matching holder for actuators and indicators is included in the scope of supply (exception: Order with order code "B01").

Push Button Units and Indicator Lights

3SB3, Accessories and spare parts, 22 mm

Miscellaneous accessories

Version	Use	Color	DT	Order No.	PU (UNIT, SET, M)	PS
Tools						
	Blanking tools 26 mm × 26 mm, for square version		B	3SB39 41-0AF	1	1 unit
	Hole drilling templates for 30 mm × 30 mm grid, horizontal, for round and square versions		C	3SB19 02-2BG	1	1 unit
	Mounting tools For buttons and lenses, metal version		B	3SB39 21-0BC	1	1 unit
	Mounting tools For potentiometer drives and for push buttons with extended stroke		C	3SX1 707	1	1 unit
	Dismantling tools For contact blocks and lamp holders	Blocks with screw terminals	B	3SB39 01-0CB	1	1 unit
	Dismantling tools For contact blocks and lamp holders	With spring-type terminals	C	3SB39 01-0CG	1	1 unit
Various accessories						
	Single frames For square design of the round version	Black	C	3SB39 21-0AU	1	1 unit
	Adapter parts Adapters for 30.5 mm mounting hole, comprising a metal disk with an adhe- sive layer on one side, degree of protection IP65	As thrust ring for a thin molded- plastic front plate	B	3SB39 21-0AE	1	1 unit
	Printed circuit board holders For mounting the command devices on the printed circuit board (screw is included in the scope of supply)	Contact blocks and lamp hold- ers for solder connection	B	3SB39 01-0AA	100	10 units
	Extension plungers For compensation of the distance between a push button and the unlatch- ing button of an overload relay	Push buttons with extended stroke	A	3SX1 335	1	1 unit

Overview



Enclosures with standard and customized equipment

Enclosed push buttons and indicator lights are used as hand operated control devices for separately allocated control units and cabinets.

Enclosures with handle are available for suspension (e.g. for crane control units).

The enclosed push buttons and indicator lights are available with conventional controls as well as for connection to the AS-Interface bus system.

The following versions are available:

- Enclosures with standard fittings with 1 to 3 command points
- Enclosures with customized equipment with 1 to 6 command points
- Empty enclosures (individual parts must be ordered separately)

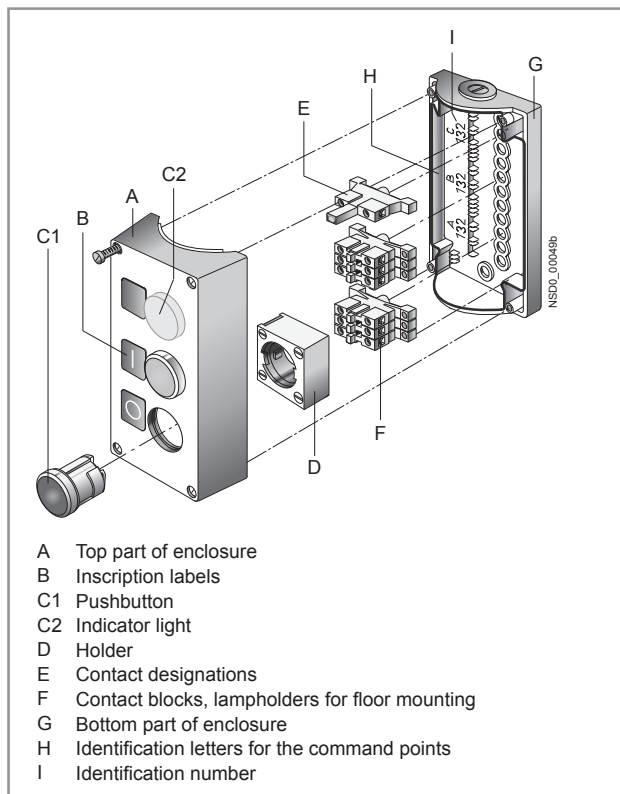
Customer-specific enclosures

On request enclosures with more than 6 command points can also be supplied with AS-Interface connection.

Use the configurator for selection.

For AS-Interface enclosures [see page 10/96](#).

Enclosures with standard fittings



Standards

IEC 60947-5-1, EN 60947-5-1

Application

The devices are climate-proof (KTW 24) according to EN ISO 6270-2 and suitable for stationary use (weather-protected) and for use in marine applications.

Technical specifications

Type	3SB38 0.-0, 3SB38 0.-1	3SB38 0.-2, 3SB38 0.-3
Enclosures		
Enclosure material	Plastic	Metal
Actuators and indicators	Plastic, round	Metal, round
Degree of protection acc. to IEC 60529	IP65	IP67 and NEMA Type 4
Climatic withstand capability according to EN ISO 6270-2	KTW 24	
Shock resistance according to IEC 60068-2-27 for half-sine shock type, 11 ms shock duration		
• Devices without incandescent lamp	≤ 50 g	
• Devices with incandescent lamp	≤ 30 g	
Vibration resistance acc. to IEC 60068-2-6		
• Acceleration at frequency 20 ... 200 Hz	5 g	

Push Button Units and Indicator Lights

3SB3, Enclosures, 22 mm

Enclosures with standard fittings

Overview

Enclosures with standard fittings are available with:

- 1 to 3 command points
- Operational voltage up to 400 V
- Vertical mounting type
- Plastic enclosures are equipped with plastic actuators and indicators, metal enclosures are equipped with metal actuators and indicators
- Contact blocks and lamp holders for base mounting (are snapped into the enclosure base); screw terminals (box terminals) as standard; some versions also with spring-type terminals (Order No. ends with -OCC0)

Color of enclosure cover:

- Gray, RAL 7035
- Yellow, RAL 1004

Color of enclosure base:

- Black, RAL 9005

Selection and ordering data

Equipment	Contact block function	Number of command points	DT	Screw terminals	PU (UNIT, SET, M)	PS
				Configurator		
				Order No.		

Plastic enclosures with standard fittings

Cable entry top and bottom each 1 x M20



3SB38 01-0DA3



3SB38 01-0.F3



3SB38 02-0DA3



3SB38 03-0DA3

A = Pushbutton green, label "I"	1 NO	1	B	3SB38 01-0DA3	1	1 unit
A = Pushbutton red, label "O"	1 NC	1	B	3SB38 01-0DB3	1	1 unit
A = Pushbutton white, label "I"	1 NO	1	B	3SB38 01-0DD3	1	1 unit
A = Pushbutton black, label "O"	1 NC	1	B	3SB38 01-0DE3	1	1 unit
A = EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching according to ISO 13850 and rotate-to-unlatch mechanism						
• With yellow top part, without protective collar	1 NC	1	B	3SB38 01-0DG3	1	1 unit
	2 NC	1	B	3SB38 01-0EG3	1	1 unit
• With yellow top part, with protective collar ¹⁾	1 NC	1	B	3SB38 01-0DF3	1	1 unit
	2 NC	1	B	3SB38 01-0EF3	1	1 unit
B = Pushbutton green, label "I"	1 NO,	2	B	3SB38 02-0DA3	1	1 unit
A = Pushbutton red, label "O"	1 NC					
B = Pushbutton white, label "I"	1 NO,	2	B	3SB38 02-0DB3	1	1 unit
A = Pushbutton black, label "O"	1 NC					
C = Indicator light clear, label without inscription,	BA 9s ²⁾ ,	3	B	3SB38 03-0DA3	1	1 unit
B = Pushbutton green, label "I",	1 NO,					
A = Pushbutton red, label "O"	1 NC					
C = Pushbutton black, label "II"	1 NO,	3	C	3SB38 03-0DB3	1	1 unit
B = Pushbutton black, label "I",	1 NO,					
A = Pushbutton red, label "O"	1 NC					
C = Indicator light clear, label without inscription,	BA 9s ²⁾ ,	3	C	3SB38 03-0DC3	1	1 unit
B = Pushbutton white, label "I",	1 NO,					
A = Pushbutton black, label "O"	1 NC					

For online configurator see www.siemens.com/sirius/configurators.

Positive opening according to IEC 60947-5-1, Appendix K.

¹⁾ The protective collar must only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

²⁾ Only lamp holder; order lamp separately.

Push Button Units and Indicator Lights

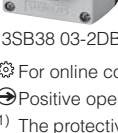
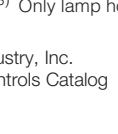
3SB3, Enclosures, 22 mm

Enclosures with standard fittings

Equipment	Contact block function	Number of command points	DT	Screw terminals	PU (UNIT, SET, M)	PS
				Spring-type terminals ³⁾		
				Configurator		
Order No.						

Metal enclosures with standard fittings

Cable entry top and bottom each 1 x M20

	A = Pushbutton green, label "I"	1 NO	1	B	3SB38 01-2DA3	1	1 unit
	A = Pushbutton red, label "O"	1 NC	1	B	3SB38 01-2DB3	1	1 unit
	A = Pushbutton white, label "I"	1 NO	1	B	3SB38 01-2DD3	1	1 unit
	A = Pushbutton black, label "O"	1 NC	1	B	3SB38 01-2DE3	1	1 unit
	A = EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching according to ISO 13850 and rotate-to-unlatch mechanism						
	• With yellow top part, without protective collar	1 NC →	1	B	3SB38 01-2DG3	1	1 unit
		2 NC →	1	B	3SB38 01-2EG3	1	1 unit
	- With M12 socket	2 NC → ²⁾	1	C	3SB38 01-2EG10-0CC0	1	1 unit
	• With yellow top part, with protective collar ¹⁾	1 NC →	1	B	3SB38 01-2DF3	1	1 unit
		2 NC →	1	B	3SB38 01-2EF3	1	1 unit
	A = EMERGENCY-STOP mushroom pushbutton, Ø 60 mm, with positive latching according to ISO 13850 and rotate-to-unlatch mechanism						
	• With yellow top part, with protective collar for 5 padlocks	2 NC →	1	B	3SB38 01-2EA30	1	1 unit
		2 NC → ²⁾	1	B	3SB38 01-2EA30-0CC0	1	1 unit
	A = mushroom pushbutton, Ø 60 mm, black, with positive latching and rotate-to-unlatch mechanism						
	• With gray top part, with protective collar for 5 padlocks	2 NC ²⁾	1	B	3SB38 01-2EB30-0CC0	1	1 unit
	B = Pushbutton green, label "I"	1 NO,	2	B	3SB38 02-2DA3	1	1 unit
	A = Pushbutton red, label "O"	1 NC					
	B = Pushbutton white, label "I"	1 NO,	2	B	3SB38 02-2DB3	1	1 unit
	A = Pushbutton black, label "O"	1 NC					
	C = Indicator light clear, label without inscription,	BA 9s ³⁾ ,	3	B	3SB38 03-2DA3	1	1 unit
	B = Pushbutton green, label "I", A = Pushbutton red, label "O"	1 NO, 1 NC					
	C = Pushbutton black, label "II"	1 NO,	3	B	3SB38 03-2DB3	1	1 unit
	B = Pushbutton black, label "I", A = Pushbutton red, label "O"	1 NO, 1 NC					
	C = Indicator light clear, label without inscription,	BA 9s ³⁾ ,	3	B	3SB38 03-2DC3	1	1 unit
	B = Pushbutton white, label "I", A = Pushbutton black, label "O"	1 NO, 1 NC					

For online configurator see www.siemens.com/sirius/configurators.

→ Positive opening according to IEC 60947-5-1, Appendix K.

¹⁾ The protective collar must only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

²⁾ -0CC0: Contact blocks with spring-type terminals.

³⁾ Only lamp holder; order lamp separately.

Push Button Units and Indicator Lights

3SB3, Enclosures, 22 mm

Empty enclosures

Selection and ordering data

Version	Number of command points	DT	Configurator 	PU (UNIT, SET, M)	PS
			Order No.		

Empty enclosures, plastic



3SB38 02-0AA3

Cable entry top and bottom
each 1 x M20 for 1 to 3 command points,
each 1 x M25 for 4 and 6 command points

For contact blocks, lamp holders and accessories with snap-on base mounting, also single-pole front plate blocks can be used (switching state is maintained upon opening), with gray top part

1	B	3SB38 01-0AA3	1	1 unit
2	B	3SB38 02-0AA3	1	1 unit
3	B	3SB38 03-0AA3	1	1 unit
4	B	3SB38 04-0AA3	1	1 unit
6	B	3SB38 06-0AA3	1	1 unit



3SB38 01-0AB3

For EMERGENCY-STOP, for contact blocks, lamp holders and accessories with snap-on base mounting, also single-pole front plate blocks can be used (switching state is maintained upon opening)

• With yellow top part, without protective collar	1	B	3SB38 01-0AB3	1	1 unit
• With yellow top part, with protective collar ¹⁾	1	B	3SB38 01-0AD3	1	1 unit

Empty enclosures, metal



3SB38 04-2AA3

Cable entry top and bottom
each 1 x M20 for 1 to 3 command points,
each 1 x M25 for 4 and 6 command points

For contact blocks, lamp holders and accessories with snap-on base mounting, also single-pole front plate blocks can be used (switching state is maintained upon opening), with gray top part

1	B	3SB38 01-2AA3	1	1 unit
2	B	3SB38 02-2AA3	1	1 unit
3	B	3SB38 03-2AA3	1	1 unit
4	B	3SB38 04-2AA3	1	1 unit
6	B	3SB38 06-2AA3	1	1 unit



3SB38 01-2AB3

For EMERGENCY-STOP, for contact blocks, lamp holders and accessories with snap-on base mounting, also single-pole front plate blocks can be used (switching state is maintained upon opening)

• With yellow top part, without protective collar	1	B	3SB38 01-2AB3	1	1 unit
• With yellow top part, with protective collar ¹⁾	1	B	3SB38 01-2AD3	1	1 unit



3SB38 01-2AD3

• With gray top part, with protective collar	1	B	3SB38 01-2AE3	1	1 unit
• With yellow top part, with protective collar for 3 padlocks, for mushroom Ø 40 mm, can be locked (BKS, CES, O.M.R.)	1	B	3SB38 01-2EC3	1	1 unit



3SB38 01-2EC3

 For online configurator see www.siemens.com/sirius/configurators.

¹⁾ The protective collar must only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

Overview

Customized enclosures are available with:

- 1 to 6 command points
- Operational voltage up to 400 V

One command point comprises:

- 1 actuator or indicator
- Up to 3 contact blocks or up to 2 contact blocks + 1 lamp holder
- 1 inscription label

For plastic enclosures the command points are equipped as standard with plastic actuators and indicators, for metal enclosures they are equipped with metal actuators and indicators.

For cable entry in each case, a hole is provided at the top and bottom:

- For M20 for 1 to 3 command points
- For M25 for 4 and 6 command points

Ordering notes (selection by configurator)

To order customized enclosures with the 3SB3 control devices (except suspended push buttons), use the 3SB3/3SF5 configurator to select the blocks for equipping. An electronic order form will be generated for the additional options. The configurator is available in the electronic catalog CA 01 on DVD or in the online catalog (Mall) on the Internet:

www.siemens.com/industry/mall

Supplement the Order No. with the order code "K0Y" (as already listed in the selection table).

The list price of the complete enclosure is generated in the configurator for the customized equipment.

Please send the resulting electronic order form along with your order by e-mail to our Competence Center at

sirius-attach.aud@siemens.com

If you are unable to access either catalog, please contact our Technical Assistance.

Selection and ordering data

Version	Number of command points	DT	Configurator 	PU (UNIT, SET, M)	PS
			Order No.		
Plastic enclosures					
	With contact blocks and lamp holders for base mounting	1	C	3SB38 01-0AZK0Y	1 1 unit
		2	C	3SB38 02-0AZK0Y	1 1 unit
		3	C	3SB38 03-0AZK0Y	1 1 unit
		4	B	3SB38 04-0AZK0Y	1 1 unit
		6	B	3SB38 06-0AZK0Y	1 1 unit
	With single-pole contact blocks and lamp holders for front plate mounting	1	C	3SB38 01-1AZK0Y	1 1 unit
		2	C	3SB38 02-1AZK0Y	1 1 unit
		3	C	3SB38 03-1AZK0Y	1 1 unit
		4	B	3SB38 04-1AZK0Y	1 1 unit
		6	B	3SB38 06-1AZK0Y	1 1 unit
Metal enclosures					
	With contact blocks and lamp holders for base mounting	1	C	3SB38 01-2AZK0Y	1 1 unit
		2	C	3SB38 02-2AZK0Y	1 1 unit
		3	C	3SB38 03-2AZK0Y	1 1 unit
		4	C	3SB38 04-2AZK0Y	1 1 unit
		6	C	3SB38 06-2AZK0Y	1 1 unit
	With single-pole contact blocks and lamp holders for front plate mounting	1	C	3SB38 01-3AZK0Y	1 1 unit
		2	C	3SB38 02-3AZK0Y	1 1 unit
		3	C	3SB38 03-3AZK0Y	1 1 unit
		4	C	3SB38 04-3AZK0Y	1 1 unit
		6	C	3SB38 06-3AZK0Y	1 1 unit

3SB38 03-AZ

3SB38 03-AZ

 For online configurator see www.siemens.com/sirius/configurators.

Push Button Units and Indicator Lights

3SB3, Enclosures, 22 mm

Contact blocks and lamp holders

Selection and ordering data

For self-equiping of the enclosures

Version	Rated voltage/ Diagram	Operating travel/color Contact closed Contact open	DT	Screw terminals Order No.	PU (UNIT, SET, M)	PS
Contact blocks for base mounting						
3SB34 20-0B	Contact blocks with one contact					
	1 NO 1 NO with gold-plated contacts	1.3 1.4	NSD0_00015 3-4 0 1 2 3 4 mm 2,3	► B	3SB34 20-0B 3SB34 20-0BA	1 1 unit 1 1 unit
	1 NC 1 NC with gold-plated contacts	1.1 1.2	NSD0_00017 1-2 0 1 2 3 4 mm 1,6	► C	3SB34 20-0C 3SB34 20-0CA	1 1 unit 1 1 unit
	BA 9s lamp holders					
3SB34 20-1A	Without lamp	Acc. to lamp X1 (L+) X2 (L-) NSD0_00003	►	3SB34 20-1A	1 1 unit	
	With integrated voltage reducer and with 130 V lamp (3SX1 731) ¹⁾	230/240 V AC X1 NSD0_00042 X2	Clear	B	3SB34 20-1C	1 1 unit
3SB34 20-1PE	Lamp holders with integrated LED					
	24 V AC/DC	X1 X2 NSD0_01292b	Yellow Red Green Blue White	B ► ► B ►	3SB34 20-1PA 3SB34 20-1PB 3SB34 20-1PC 3SB34 20-1PD 3SB34 20-1PE	1 1 unit 1 1 unit 1 1 unit 1 1 unit 1 1 unit
	110 V AC	X1 X2 NSD0_01296b	Yellow Red Green Blue White	B B B D B	3SB34 20-1QA 3SB34 20-1QB 3SB34 20-1QC 3SB34 20-1QD 3SB34 20-1QE	1 1 unit 1 1 unit 1 1 unit 1 1 unit 1 1 unit
	230 V AC	X1 X2 NSD0_01296b	Yellow Red Green Blue White	B B B B B	3SB34 20-1RA 3SB34 20-1RB 3SB34 20-1RC 3SB34 20-1RD 3SB34 20-1RE	1 1 unit 1 1 unit 1 1 unit 1 1 unit 1 1 unit
	Fixpoint terminals					
	3SB39 01-0AH		Black	B	3SB39 01-0AG	1 1 unit
			Blue	B	3SB39 01-0AH	1 1 unit
			Green/Yellow	B	3SB39 01-0AJ	1 1 unit

 Positive opening according to IEC 60947-5-1, Appendix K.

¹⁾ Only use with this lamp.

Push Button Units and Indicator Lights

3SB3, Enclosures, 22 mm

Contact blocks and lamp holders

1

2

3

4

5

6

7

8

9

10

Version	Rated voltage/ Diagram	Operating travel/color Contact closed Contact open	DT	Spring-type terminals 	PU (UNIT, SET, M)	PS
				Order No.		

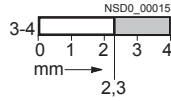
Contact blocks for base mounting



3SB34 23-0B

Contact blocks with one contact

1 NO
1 NO with
gold-plated contacts



B

3SB34 23-0B

1

1 unit

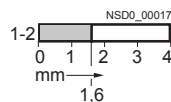
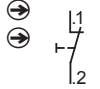
D

3SB34 23-0BA

1

1 unit

1 NC
1 NC with
gold-plated contacts



B

3SB34 23-0C

1

1 unit

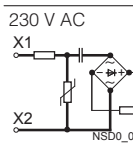
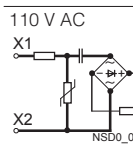
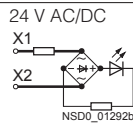
B

3SB34 23-0CA

1

1 unit

Lamp holders with integrated LED



Yellow
Red
Green
Blue
White

B

3SB34 23-1PA

1

1 unit

B

3SB34 23-1PB

1

1 unit

B

3SB34 23-1PC

1

1 unit

B

3SB34 23-1PD

1

1 unit

B

3SB34 23-1PE

1

1 unit

Yellow
Red
Green
Blue
White

B

3SB34 23-1QA

1

1 unit

D

3SB34 23-1QB

1

1 unit

D

3SB34 23-1QC

1

1 unit

D

3SB34 23-1QD

1

1 unit

D

3SB34 23-1QE

1

1 unit

Yellow
Red
Green
Blue
White

D

3SB34 23-1RA

1

1 unit

B

3SB34 23-1RB

1

1 unit

B

3SB34 23-1RC

1

1 unit

B

3SB34 23-1RD

1

1 unit

B

3SB34 23-1RE

1

1 unit

Fixpoint terminals

Black
Blue
Green/Yellow

B

3SB34 23-2F

1

1 unit

B

3SB34 23-2G

1

1 unit

B

3SB34 23-2H

1

1 unit



3SB34 23-2G

➔ Positive opening according to IEC 60947-5-1, Appendix K.

Version	DT	Order No.	PU (UNIT, SET, M)	PS

Accessories



3SB39 01-0AW

Pressure plates for selector switches and key-operated switches
For actuating the central contact block of 3 contact blocks

B

3SB39 01-0AW

100

10 units

Push Button Units and Indicator Lights

3SB3, Enclosures, 22 mm

Inscription labels for enclosures

Overview

Inscription labels

The inscription labels (black with white inscription or silver-colored with black print) have an adhesive layer on the back. The size of the labels is 22 mm x 22 mm.

Inscriptions

The inscriptions have upper case initial letters. The typeface is Arial. Graphic symbols, including those not listed in the catalog, are according to ISO 7000 or IEC 60417 ([see page 10/95](#)).

Selection and ordering data

Inscriptions		DT	Black	DT	Silver-colored
			Order No.		Order No.
Inscription labels, self-adhesive, 22 mm x 22 mm					
	For self-inscription				
	Blank	B	3SB39 06-1AA	B	3SB19 01-3AA
	With inscription				
	On	B	3SB39 06-1EB	B	3SB19 01-3EB
	Off	B	3SB39 06-1EC	B	3SB19 01-3EC
	Up	B	3SB39 06-1ED	B	3SB19 01-3ED
	Down	B	3SB39 06-1EE	B	3SB19 01-3EE
	Open	B	3SB39 06-1EP	B	3SB19 01-3EP
	Close	B	3SB39 06-1EQ	B	3SB19 01-3EQ
	Forward	B	3SB39 06-1EF	B	3SB19 01-3EF
	Reverse	B	3SB39 06-1EG	B	3SB19 01-3EG
	Right	B	3SB39 06-1EH		—
	Left	B	3SB39 06-1EJ		—
	Fast	B	3SB39 06-1ER		—
	Slow	B	3SB39 06-1ES		—
	Running	B	3SB39 06-1EV	B	3SB19 01-3EV
	Fault	B	3SB39 06-1EW		—
	Operation	B	3SB39 06-1AP		—
	Start	B	3SB39 06-1EL	B	3SB19 01-3EL
	Reset	B	3SB39 06-1EM	B	3SB19 01-3EM
	Test	B	3SB39 06-1EN	B	3SB19 01-3EN
	Stop	B	3SB39 06-1EK	B	3SB19 01-3EK
	EMERGENCY STOP	B	3SB39 06-1EY	B	3SB19 01-3EY
Equipment					
	Fan	B	3SB39 06-1CA		—
	Pump	B	3SB39 06-1CB		—
	Cooling	B	3SB39 06-1CC		—
	Heating	B	3SB39 06-1CD		—
	Lighting	B	3SB39 06-1CE		—
	Filter	B	3SB39 06-1CF		—
	Motor	B	3SB39 06-1CG		—
	Compressor	B	3SB39 06-1CH		—
With graphic symbol					
	O	B	3SB39 06-1MB	B	3SB19 01-3MB
	I	B	3SB39 06-1MC	B	3SB19 01-3MC
	II	B	3SB39 06-1MD	B	3SB19 01-3MD
	III	B	3SB39 06-1ME	B	3SB19 01-3ME
	O I (horizontal)	B	3SB39 06-1MF	B	3SB19 01-3MF
	I O II (horizontal)	B	3SB39 06-1MG	B	3SB19 01-3MG
	I O (vertical)	B	3SB39 06-1MH	B	3SB19 01-3MH
	II O I (vertical)	B	3SB39 06-1MW	C	3SB19 01-3MW
		B	3SB39 06-1NA	B	3SB19 01-3NA
Inscriptions		DT	Black	DT	Silver-colored
			Order No.		Order No.
Inscription labels, self-adhesive, 22 mm x 22 mm					
	With customized inscription				
	For inscriptions or symbols see "Options"				
	• Text line(s)	B	3SB39 06-0XZ	B	3SB19 01-3XZ
	• Text line(s) or symbol with No.	B	K0Y	B	K0Y
	• Any inscription or symbol	B	K1Y, K2Y, K3Y or K5Y	B	K1Y, K2Y, K3Y or K5Y
		B	K9Y	B	K9Y

For customized inscriptions [see page 10/72](#).

Push Button Units and Indicator Lights

3SB3, Enclosures, 22 mm

Accessories for enclosures

Selection and ordering data

Version	Color/ inscription	DT	Order No.	PU (UNIT, SET, M)	PS
Blanking plugs for spare command points					
 3SB39 21-0AA	Blanking plugs For plastic version, round	Black ▶	3SB39 21-0AA	1	10 units
 3SB19 02-0AQ	Blanking plugs (plastic) For metal version, round	Aluminized B	3SB19 02-0AQ	1	10 units
Holders and pressure plates					
 3SB39 01-0AB	Holders for push buttons and switches For snapping on 3 blocks, ¹⁾ for front plate mounting	▶	3SB39 01-0AB	100	20 units
 3SB39 01-0AC	Holders for selector switches and key-operated switches with pressure plate For actuating a central contact block, for front plate mounting ²⁾	▶	3SB39 01-0AC	100	10 units
 3SB39 01-0AW	Pressure plates for selector switches and key-operated switches For actuating a central contact block, for base mounting ²⁾	B	3SB39 01-0AW	100	10 units
Accessories for enclosures					
	Yellow name plates As backing plate for EMERGENCY-STOP, self-adhesive	Without inscription D	3SB19 02-1AQ	1	1 unit
		With recess for inscription label B	3SB39 21-0BV	1	1 unit
 3SB39 01-0CK	Cable gland includes hexagonal nut • M20 • M25 • Pg 16 • Pg 22	B	3SB39 01-0CK	1	1 unit
		B	3SB39 01-0CM	1	1 unit
		B	3SB39 01-0AK	1	1 unit
		B	3SB39 01-0AM	1	1 unit
 3SB39 01-0CL	Hexagonal nuts For cable glands • M25 • M20 • Pg 16 • Pg 22	B	3SB39 01-0CL	100	10 units
		B	3SB39 01-0CN	100	10 units
		B	3SB39 01-0AL	100	10 units
		B	3SB39 01-0AN	100	10 units
 3SB39 01-0CS	Connecting pieces For connecting 2 plastic enclosures • M20/M20 • M20/M25 ³⁾ • M25/M25	B	3SB39 01-0CS	1	1 unit
		B	3SB39 01-0CT	1	1 unit
		B	3SB39 01-0CU	1	1 unit
 3SB39 01-0CP	Connecting pieces For connecting 2 metal enclosures • M20/M20 • M20/M25	B	3SB39 01-0CP	1	1 unit
		B	3SB39 01-0CQ	1	1 unit
	Pg 16 terminal for AS interface cable suitable receptacles: crimp snap-in contacts 0.2–0.56 mm2	B	3SB39 01-0AF	1	1 unit

¹⁾ The holder for illuminated commanding devices is included in the scope of supply.

²⁾ The pressure plates can be removed one by one to meet individual requirements.

³⁾ Not suitable for plastic enclosures with 6 command points.

Push Button Units and Indicator Lights

3SB3, Enclosures for AS-Interface, 22 mm

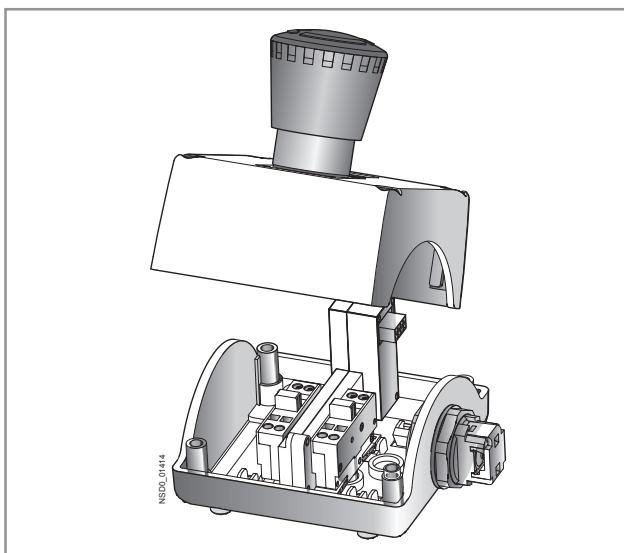
General data

Overview



AS-Interface enclosure with customized equipment

Distributed command devices of the 3SB3 series can be quickly connected to the AS-Interface using AS-Interface enclosures. Using suitable components you can make your own enclosures with integrated AS-Interface or flexibly modify existing enclosures.



EMERGENCY-STOP enclosure

Enclosures

Color of enclosure cover:

- Gray, RAL 7035, or
- Yellow, RAL 1004, for EMERGENCY-STOP.

Color of enclosure base:

- Black, RAL 9005

Installation of AS-Interface slaves

The following slave types are available for connecting the command points:

- Slave in A/B technology with 4 inputs and 3 outputs
- Slave with 4 inputs and 4 outputs
- F Slave with two secure inputs for EMERGENCY-STOP mushroom pushbutton

The following table shows the maximum number of equippable slaves:

Enclosures for	Number of slaves for enclosures without EMERGENCY-STOP	Number of slaves for enclosures with EMERGENCY-STOP
1 command point	Not available	1 x F slave
2 command points	1 x slave 4I/4O or 4I/3O	Not available
3 command points	1 x slave 4I/4O or 4I/3O	1 x slave 4I/4O or 4I/3O + 1 x F slave
4 command points	2 x slave 4I/4O or 4I/3O ¹⁾	2 x slave 4I/4O or 4I/3O + 1 x F slave ¹⁾
6 command points	2 x slave 4I/4O or 4I/3O	2 x slave 4I/4O or 4I/3O + 1 x F slave

¹⁾ For metal enclosures with 4 command points, only 1 x slave 4I/4O or 4I/3O is possible.

Connection

One set of links is required in each case to connect a slave to contact blocks, to lamp holders and to the connection element.

The connection elements are mounted in the front-end cable glands and are used for connection of the AS-Interface or for bringing unused inputs or outputs out of the enclosure.

For connection to AS-Interface it can be selected between:

- Terminal for shaped AS-Interface cable. The cable is contacted by the insulation piercing method and routed past the enclosure on the outside (possible only with plastic enclosure).
- Cable gland for the shaped AS-Interface cable or round cable. The cable is routed into the enclosure (preferable for metal enclosure).
- Connection using M12 plug.

If less than all inputs/outputs of the installed slaves in an enclosure are used for connecting the command devices, free inputs and outputs can be routed on request to the outside through an M12 socket on the top or bottom side of the enclosure.

To supply inputs with power, the S+ connection of the slave must be assigned to the socket, for outputs the OUT- connection must be assigned.

Addressing is performed using the AS-Interface connections or the integrated addressing socket. An external power supply is not required.

Customized enclosures (selection by configurator)

To order customized 3SF58 AS-Interface enclosures with the 3SB3 control devices, use the 3SB3/3SF5 configurator to select the blocks for equipping. An electronic order form will be generated for the additional options.

For related ordering notes see page 10/91

Push Button Units and Indicator Lights

3SB3, Components for Actuators and Indicators, 22 mm

AS-Interface F adapters for EMERGENCY-STOP devices

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Overview



EMERGENCY-STOP mushroom push button with F adapter for bus connection

The AS-Interface F adapter is used to connect an EMERGENCY-STOP device according to ISO 13850 from the 3SB3 series to the AS-Interface bus system. The F adapter is suitable for control devices with mounting on front plates.

The F adapter has a safe AS-Interface 2I slave and is snapped from behind onto the EMERGENCY-STOP mushroom push button. In the 2I/1O expanded version, an output is also available for actuating an indicator light with LED.

Depending on the version, screw terminals or spring-type terminals or the insulation piercing method are used for connecting to the AS-Interface bus cable. Addressing is performed using the AS-Interface connection or the integrated addressing socket.

Safety category 4 (SIL 3) is achieved with the adapter.

Selection and ordering data

Version	DT	Screw terminals	PS
---------	----	-----------------	----

Order No.



3SF5 402-1AA03

AS-Interface F adapter for 3SB3 EMERGENCY-STOP mushroom push buttons

For mounting on front plates

- 2I
- 2I/1O, with output for LED control

3SF5 402-1AA03
3SF5 402-1AB03

1 unit
1 unit

Version	DT	Spring-type terminals	PS
---------	----	-----------------------	----

Order No.



3SF5 402-1AA04

AS-Interface F adapter for 3SB3 EMERGENCY-STOP mushroom push buttons

For mounting on front plates

- 2I
- 2I/1O, with output for LED control

3SF5 402-1AA04
3SF5 402-1AB04

1 unit
1 unit

Version	DT	Insulation piercing method	PS
---------	----	----------------------------	----

Order No.



3SF5 402-1AA05

AS-Interface F adapter for 3SB3 EMERGENCY-STOP mushroom push buttons

For mounting on front plates

- 2I
- 2I/1O, with output for LED control

3SF5 402-1AA05
3SF5 402-1AB05

1 unit
1 unit

Push Button Units and Indicator Lights

3SB3, Enclosures for AS-Interface, 22 mm

AS-Interface enclosures with standard fittings

Overview

Enclosures with standard fittings are available with:

- 1 to 3 command points
- Operational voltage through AS-Interface (approx. 30 V)
- Vertical mounting type
- Plastic enclosures are equipped with plastic actuators and indicators, metal enclosures are equipped with metal actuators and indicators

The enclosures without EMERGENCY-STOP each have one user module with 4I/3O; the enclosures with EMERGENCY-STOP mushroom push buttons have a safe AS-Interface slave integrated in the enclosure.

Enclosures with EMERGENCY-STOP mushroom push buttons are fitted with two NC contact blocks, which are wired to the safe slave. The contact blocks and lamp holders (with spring-type terminals) of the control device, and the AS-Interface slaves, are mounted in the base of the enclosure and are cable-connected.

The plastic enclosures are designed with a connection for the AS-Interface flat cable (the cable is run passed the outside of the enclosure). For metal enclosures, the AS-Interface cable is run inside the enclosure.

The housing with EMERGENCY-STOP mushroom push buttons with an M12 connector is also available.

Selection and ordering data

Equipping options (A, B, C = identification letters of the command points)		Number of command points	DT	Configurator 	PU (UNIT, SET, M)	PS
				Order No.		
AS-Interface enclosures, plastic						
 3SF5 811-0AA08		With M12 top connector				
A = EMERGENCY-STOP mushroom push buttons, with rotate-to-unlatch mechanism, 1 NC, 1 NC, yellow enclosure top		1	B	3SF5 811-0AA10	1	1 unit
 3SF5 812-0DA00		With terminal for insulation piercing method at top				
A = EMERGENCY-STOP mushroom push buttons, with rotate-to-unlatch mechanism, 1 NC, 1 NC						
• Yellow enclosure top		1	A	3SF5 811-0AA08	1	1 unit
• Yellow enclosure top, with protective collar		1	A	3SF5 811-0AB08	1	1 unit
B = Pushbutton green, label "I", 1 NO A = Pushbutton red, label "O", 1 NO		2	A	3SF5 812-0DA00	1	1 unit
B = Pushbutton white, label "I", 1 NO A = Pushbutton black, label "O", 1 NO		2	A	3SF5 812-0DB00	1	1 unit
C = Indicator lights clear, label without inscription B = Pushbutton green, label "I", 1 NO A = Pushbutton red, label "O", 1 NO		3	A	3SF5 813-0DA00	1	1 unit
C = Indicator lights clear, label without inscription B = Pushbutton white, label "I", 1 NO A = Pushbutton black, label "O", 1 NO		3	A	3SF5 813-0DC00	1	1 unit
C = Pushbutton black, label "II", 1 NO B = Pushbutton black, label "I", 1 NO A = Pushbutton red, label "O", 1 NO		3	A	3SF5 813-0DB00	1	1 unit
AS-Interface enclosures, metal						
 3SF5 811-2AB08		With M12 top connector				
A = EMERGENCY-STOP mushroom push buttons, with rotate-to-unlatch mechanism, 1 NC, 1 NC						
• Yellow enclosure top		1	C	3SF58 11-2AA10	1	1 unit
• Yellow enclosure top, with protective collar		1	C	3SF58 11-2AB10	1	1 unit
 3SF5 813-2DA00		With cable gland at top				
A = EMERGENCY-STOP mushroom push buttons, with rotate-to-unlatch mechanism, 1 NC, 1 NC						
• Yellow enclosure top		1	A	3SF5 811-2AA08	1	1 unit
• Yellow enclosure top, with protective collar		1	A	3SF5 811-2AB08	1	1 unit
B = Pushbutton green, label "I", 1 NO A = Pushbutton red, label "O", 1 NO		2	A	3SF5 812-2DA00	1	1 unit
B = Pushbutton white, label "I", 1 NO A = Pushbutton black, label "O", 1 NO		2	A	3SF5 812-2DB00	1	1 unit
C = Indicator lights clear, label without inscription B = Pushbutton green, label "I", 1 NO A = Pushbutton red, label "O", 1 NO		3	A	3SF5 813-2DA00	1	1 unit
C = Indicator lights clear, label without inscription B = Pushbutton white, label "I", 1 NO A = Pushbutton black, label "O", 1 NO		3	A	3SF5 813-2DC00	1	1 unit
C = Pushbutton black, label "II", 1 NO B = Pushbutton black, label "I", 1 NO A = Pushbutton red, label "O", 1 NO		3	A	3SF5 813-2DB00	1	1 unit

For online configurator see www.siemens.com/sirius/configurators.

Push Button Units and Indicator Lights

3SB3, Enclosures for AS-Interface, 22 mm

Components for AS-Interface enclosures

1
2
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Selection and ordering data

For self-equipping of the enclosures

Version	Number of command points	DT	Order No.	PU (UNIT, SET, M)	PS
For plastic enclosures					
 3SF5 500-0BA	AS-Interface slaves				
	F slave, 2 safe inputs, for plastic enclosure, EMERGENCY-STOP, without protective collar	1 ... 6	A	3SF5 500-0BA	1 1 unit
	F slave, 2 safe inputs, for plastic or metal enclosure, EMERGENCY-STOP, with protective collar	1	A	3SF5 500-0DA	1 1 unit
	A/B slave, 4I/3O for plastic enclosure	2 ... 6	A	3SF5 500-0BB	1 1 unit
	Slave, 4I/4O, for plastic enclosure	2 ... 6	A	3SF5 500-0BC	1 1 unit
 3SF5 500-0BB	Sets of links				
	For F slave		A	3SF5 900-0BA	1 1 unit
	For slave 4I/4O or A/B slave 4I(3O)		A	3SF5 900-0BB	1 1 unit
	Connection elements				
	For AS-Interface shaped cable, connection by insulation piercing method, for plastic enclosure	1 ... 3 4 ... 6	A B	3SF5 900-0CA 3SF5 900-0CB	1 1 unit 1 1 unit
 3SF5 900-0CA	For AS-Interface connection using M12 plug, for plastic enclosure	1 ... 3 4 ... 6	B B	3SF5 900-0CC 3SF5 900-0CD	1 1 unit 1 1 unit
	For bringing out unused inputs/outputs through an M12 socket, for plastic enclosure	1 ... 3 4 ... 6	B B	3SF5 900-0CE 3SF5 900-0CF	1 1 unit 1 1 unit
	For AS-Interface shaped cable, cable is routed into the enclosure, for plastic or metal enclosure	1 ... 3 4 ... 6	A A	3SF5 900-0CG 3SF5 900-0CH	1 1 unit 1 1 unit
	For round cable, cable is routed into the enclosure, for plastic or metal enclosure	1 ... 3 4 ... 6	A A	3SF5 900-0CJ 3SF5 900-0CK	1 1 unit 1 1 unit
For metal enclosures					
 3SF5 500-0CB	AS-Interface slaves				
	F slave, 2 safe inputs, for metal enclosure, EMERGENCY-STOP, without protective collar	1 ... 6	A	3SF5 500-0CA	1 1 unit
	F slave, 2 safe inputs, for plastic or metal enclosure, EMERGENCY-STOP, with protective collar	1	A	3SF5 500-0DA	1 1 unit
	A/B slave, 4I/3O, for metal enclosure	2 ... 6	A	3SF5 500-0CB	1 1 unit
	Slave, 4I/4O, for metal enclosure	2 ... 6	A	3SF5 500-0CC	1 1 unit
 3SF5 900-0CG	Sets of links				
	For F slave		A	3SF5 900-0BA	1 1 unit
	For slave 4I/4O or A/B slave 4I(3O)		A	3SF5 900-0BB	1 1 unit
	Connection elements				
	For AS-Interface connection using M12 plug, for metal enclosure	1 ... 3 4 ... 6	B B	3SF5 900-2CC 3SF5 900-2CD	1 1 unit 1 1 unit
 3SF5 900-0CJ	For bringing out unused inputs/outputs through an M12 socket, for metal enclosure	1 ... 3 4 ... 6	B B	3SF5 900-2CE 3SF5 900-2CF	1 1 unit 1 1 unit
	For AS-Interface shaped cable, cable is routed into the enclosure, for plastic or metal enclosure	1 ... 3 4 ... 6	A A	3SF5 900-0CG 3SF5 900-0CH	1 1 unit 1 1 unit
	For round cable, cable is routed into the enclosure, for plastic or metal enclosure	1 ... 3 4 ... 6	A A	3SF5 900-0CJ 3SF5 900-0CK	1 1 unit 1 1 unit

Push Button Units and Indicator Lights

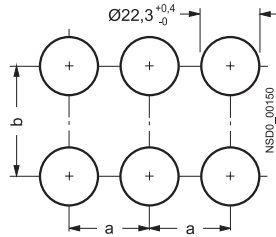
SIRIUS 3SB3

Dimension drawings (mm) Operator and indicator elements

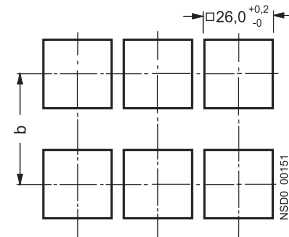
Dimension drawings

Mounting dimensions

Round design



Square design



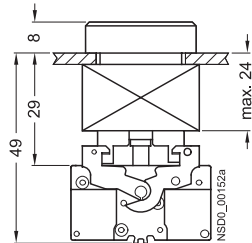
Minimum clearance	a	b
Switch blocks (1 contact) and lampholder		
• for front plate mounting, with screw terminals	30 ¹⁾	45
• for front plate mounting, with spring-loaded terminals	30 ¹⁾	30 ¹⁾
• for use on PCB, with solder pins	30 ¹⁾	30 ¹⁾
Switch blocks with 2 contacts		
• for front plate mounting	30 ¹⁾	50
When using holders for labeling plates		
• 12.5 mm x 27 mm	30 ¹⁾	45 ²⁾
• 27.0 mm x 27 mm	30 ¹⁾	60

1) For mushroom pushbutton, EMERGENCY-STOP and push-pull button:
Note mushroom diameter d = 40 mm or 60 mm.

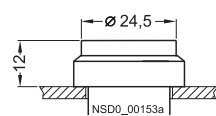
2) 60 mm with switch blocks having two contacts.

Molded-plastic version, round

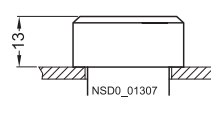
Pushbutton or illuminated pushbutton
with flat pushbutton
and single-pole switch block
(and lampholder)



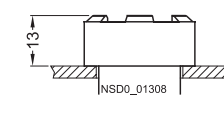
Pushbutton or illuminated pushbutton
with raised button



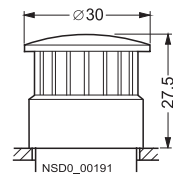
Pushbutton
with raised front ring



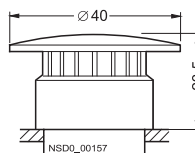
Pushbutton
with raised front ring castellated



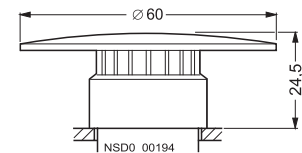
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,
? 30 mm



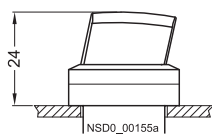
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,
? 40 mm



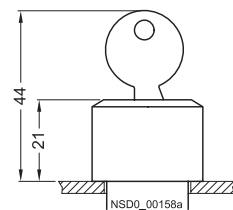
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,
? 60 mm



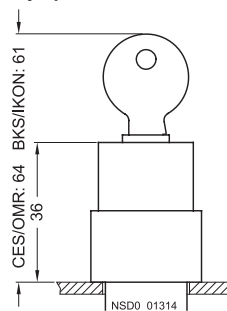
Selector switch or illuminated selector switch



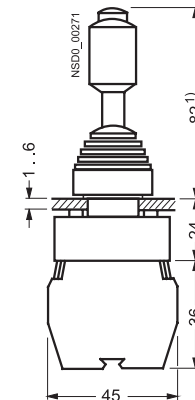
RONIS key-operated switch



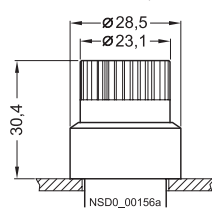
BKS, CES, IKON, O.M.R. key-operated switches



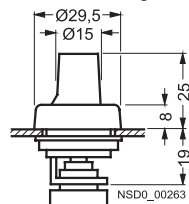
Joystick switch



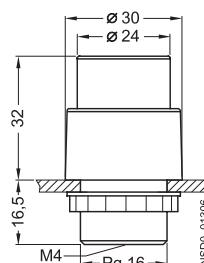
Pushbutton
with raised button, latching



Operating mechanism for potentiometer
with shaft Ø 6 mm,
30 ... 32 mm long

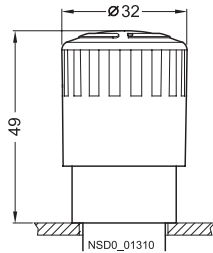


Pushbutton with extended stroke

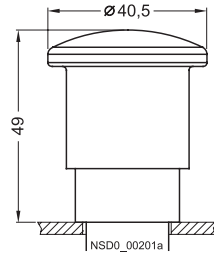


1) 82 with mechanical interlock,
77 without mechanical interlock

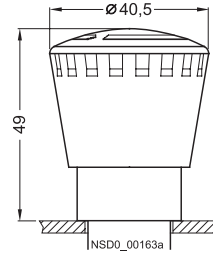
**EMERGENCY-STOP
mushroom pushbutton,**
Ø 32 mm, pull to unlatch



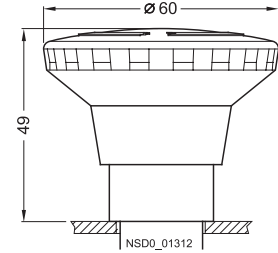
**EMERGENCY-STOP
mushroom pushbutton,**
Ø 40 mm, pull to unlatch



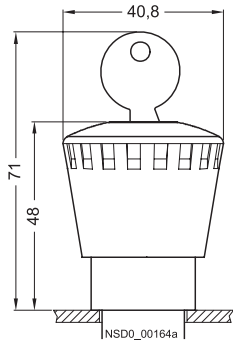
**EMERGENCY-STOP
mushroom pushbutton,**
Ø 40 mm, pull to unlatch



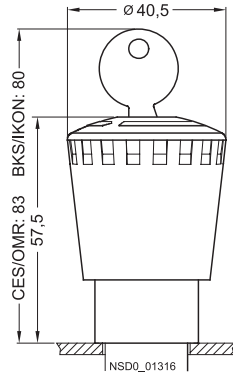
**EMERGENCY-STOP
mushroom pushbutton,**
Ø 60 mm, rotate to unlatch



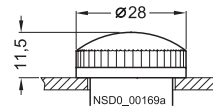
**EMERGENCY-STOP
mushroom pushbutton**
with RONIS key-operated switch



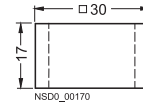
**EMERGENCY-STOP
mushroom pushbutton**
with BKS, CES, IKON, O.M.R.
key-operated switch



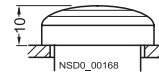
Indicator light



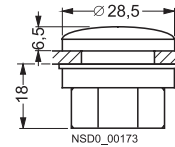
Gear Holder



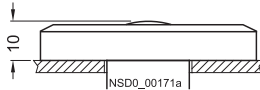
Audible signal device



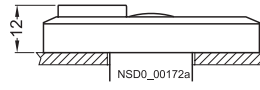
Hole plug



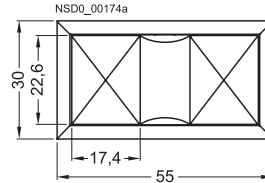
On-Off pushbutton
with flat buttons



On-Off pushbutton
with raised buttons

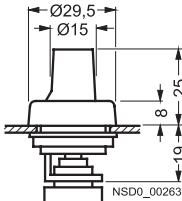


On-Off pushbutton
with or without indicator light

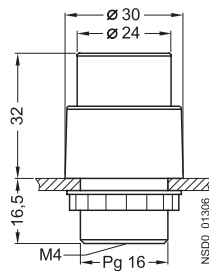


Top view

Operating mechanism for potentiometer
with shaft Ø 6 mm,
30 ... 32 mm long



Pushbutton with extended stroke



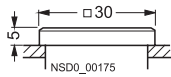
Push Button Units and Indicator Lights

SIRIUS 3SB3

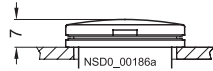
Dimension drawings (mm) Operator and indicator elements

Plastic version, square

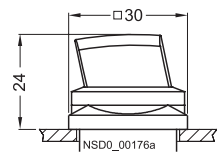
Pushbutton or illuminated pushbutton with flat pushbutton



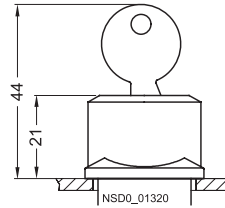
Indicator light



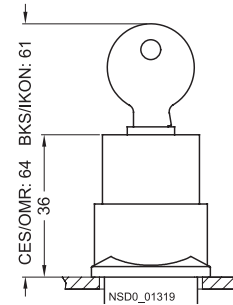
Selector switch or illuminated selector switch



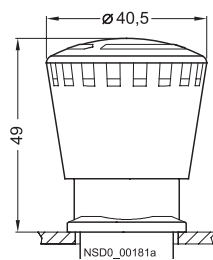
RONIS key-operated switch



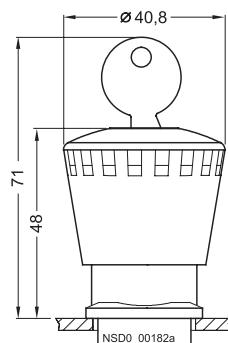
BKS, CES, IKON, O.M.R. key-operated switch



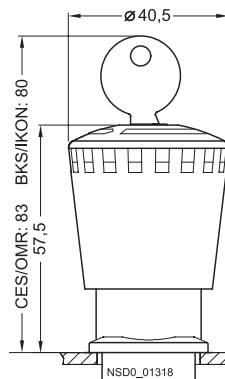
EMERGENCY-STOP mushroom pushbutton with safety lock



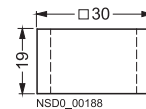
EMERGENCY-STOP mushroom pushbutton with RONIS key-operated switch



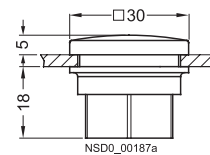
EMERGENCY-STOP mushroom pushbutton with BKS, CES, IKON, O.M.R. key-operated switch



Gear Holder

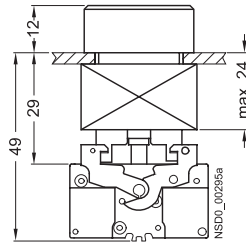


Hole plug

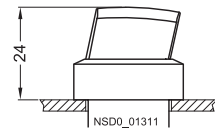


Metal version, round

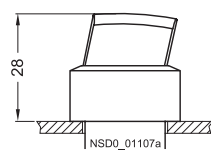
Pushbutton or illuminated pushbutton
with flat button and single-pole switch block (and lampholder)



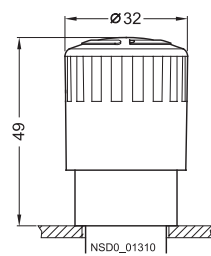
Selector switch or illuminated selector switch, standard



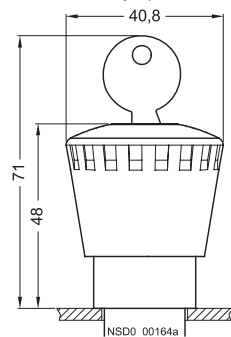
Selector switch or illuminated selector switch, heavy duty



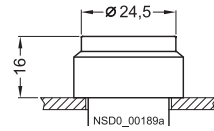
EMERGENCY-STOP mushroom pushbutton, Ø 32 mm, rotate to unlatch



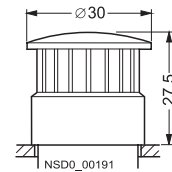
EMERGENCY-STOP mushroom pushbutton with RONIS key-operated switch



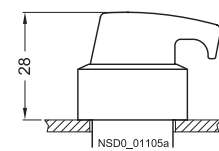
Pushbutton or illuminated pushbutton
with raised button



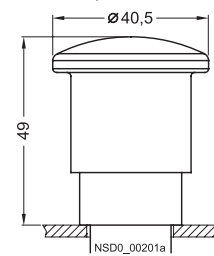
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, ? 30 mm



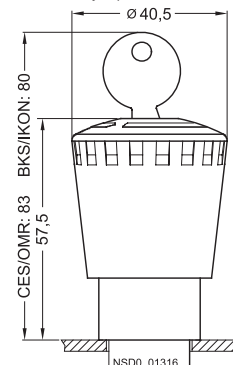
Selector switch or illuminated selector switch with long handle



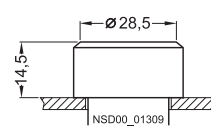
EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, pull to unlatch



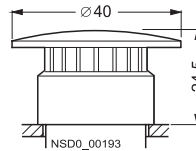
EMERGENCY-STOP mushroom pushbutton with BKS, CES, IKON, O.M.R. key-operated switch



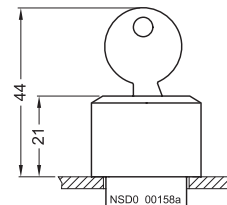
Pushbutton or illuminated pushbutton, latching, with flat button



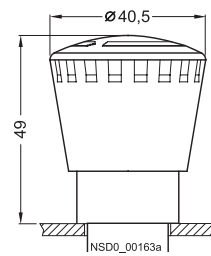
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, ? 40 mm



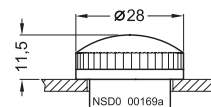
RONIS key-operated switch



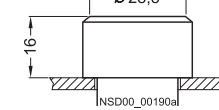
EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, rotate to unlatch



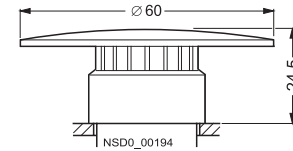
Indicator light



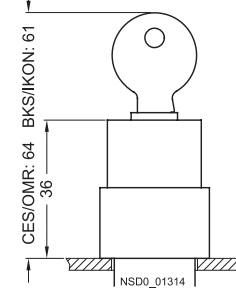
Pushbutton
with raised front ring



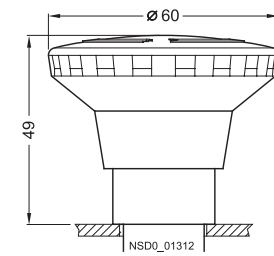
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, ? 60 mm



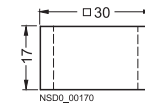
BKS, CES, IKON, O.M.R. key-operated switches



EMERGENCY-STOP mushroom pushbutton, Ø 60 mm, rotate to unlatch



Gear Holder



Push Button Units and Indicator Lights

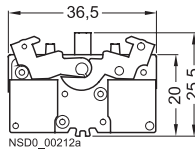
SIRIUS 3SB3

Dimension drawings (mm) Contact blocks and lamp holders

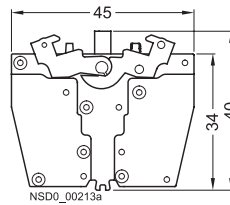
Contact blocks and lampholders

Screw connection, for front plate mounting

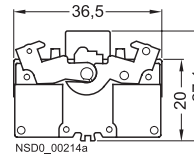
**Switch block
with 1 contact**



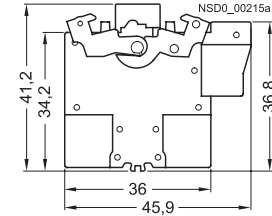
**Switch block
with 2 contacts**



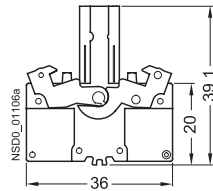
**BA 9s lampholder
with or without integrated voltage
reducer**



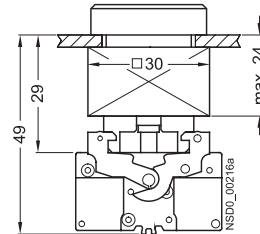
**BA 9s lampholder
with separate lamp test function**



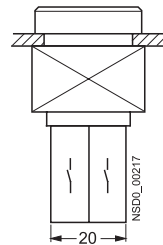
**Lampholder
with integrated LED**



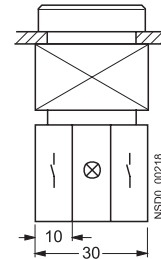
**Pushbutton or
illuminated pushbutton
with switch blocks
with 1 contact**



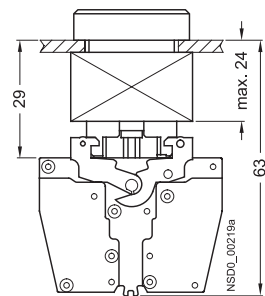
**Pushbutton
with switch blocks
with 1 contact**



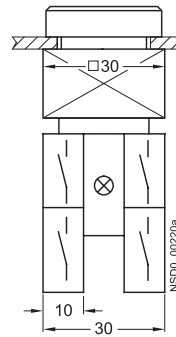
**Illuminated pushbutton
with switch blocks
with 1 contact and lampholder**



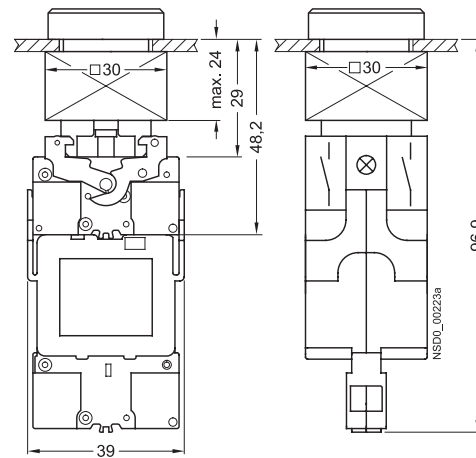
**Pushbutton or
illuminated pushbutton
with switch blocks
with 2 contacts**



**Illuminated pushbutton
with switch blocks
with 2 contacts and lampholder**

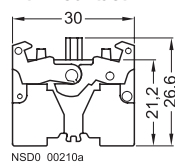


**Illuminated pushbutton
with switch blocks with 1 contact and
lampholder with snapped-on transformer**

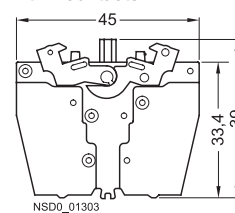


Spring-loaded terminals, for front plate mounting

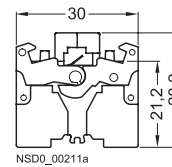
**Switch block
with 1 contact**



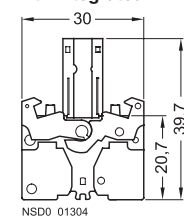
**Switch block
with 2 contacts**



Lampholder BA 9s

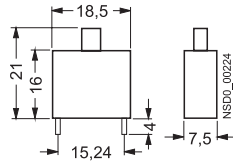


**Lampholder
with integrated LED**

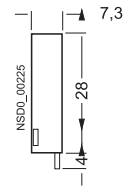


With solder pins, for use on PCB

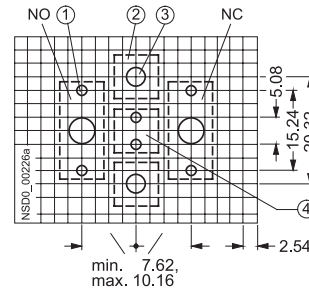
Contact block 1 NO and 1 NC



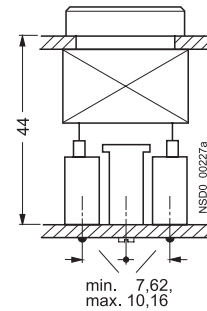
Lampholder



Solder pin spacing



Pushbutton or illuminated pushbutton with contact blocks with 1 contact and PCB support

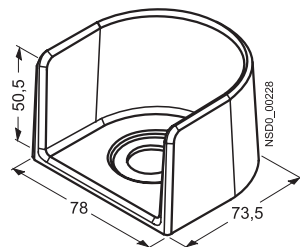


- ① Solder pin $\varnothing 1.3^{+0.1}$
- ② PCB holder
- ③ Centering hole $\varnothing 4.2^{+0.1}$
- ④ Lampholder

Accessories

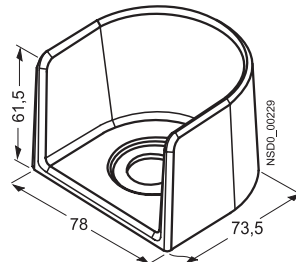
3SB39 21-0AK shroud

for front plate mounting ¹⁾
for EMERGENCY-STOP mushroom
pushbutton without key-operated switch.



3SB39 21-0AX shroud

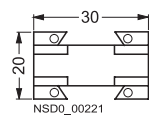
for front plate mounting ¹⁾
for EMERGENCY-STOP mushroom
pushbutton with key-operated switch.



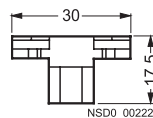
1) Can be used with a front plate thickness up to 4mm.

Holder for mounting 3 elements

Holder for pushbuttons



Holder for selector switch, key-operated switch and On-Off pushbutton, with pressure plate



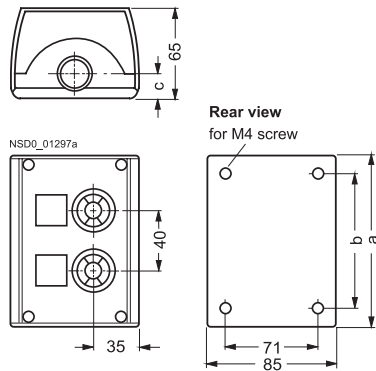
Push Button Units and Indicator Lights

SIRIUS 3SB3

Dimension drawings (mm) Accessories and enclosures

Enclosures

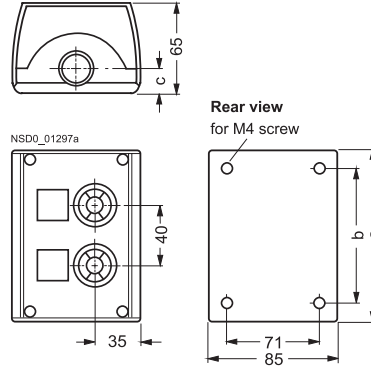
Enclosure without shroud, molded plastic



top and bottom with knockouts
for one gland each

Number of command points	Length a	Spacing b	Spacing c
1	85	54	17,5
2	114	83	17,5
3	154	123	17,5
4	194	163	17,5
6	280	249	20,5

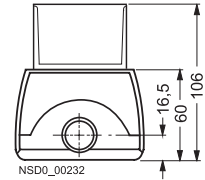
Enclosure without shroud, metal



top and bottom with opening
for one gland each

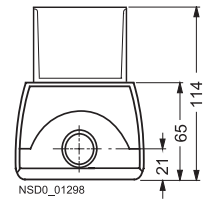
Number of command points	Length a	Spacing b	Spacing c
1	85	54	21
2	114	83	21
3	154	123	21
4	194	163	21
6	280	249	21

Enclosure with shroud, molded plastic



top and bottom with knockouts
for one gland each

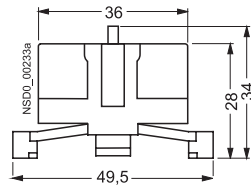
Enclosure with shroud, metal



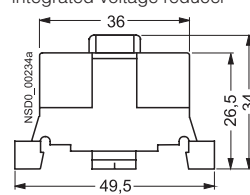
top and bottom with opening
for one gland each

Screw connection, for base mounting

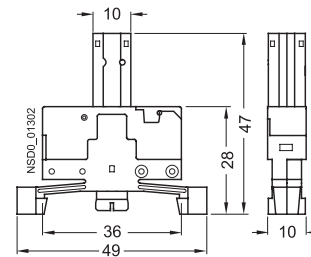
Contact block
with 1 contact



BA9s lampholder with or without
integrated voltage reducer

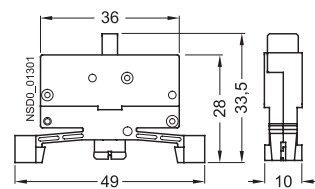


Lampholder
with integrated LED

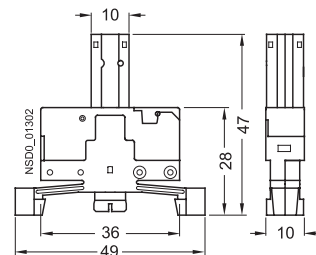


Spring-loaded terminals, for base mounting

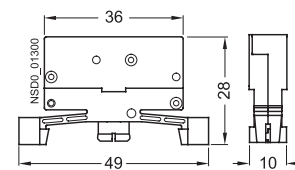
Contact block
with 1 contact



Lampholder
with integrated LED

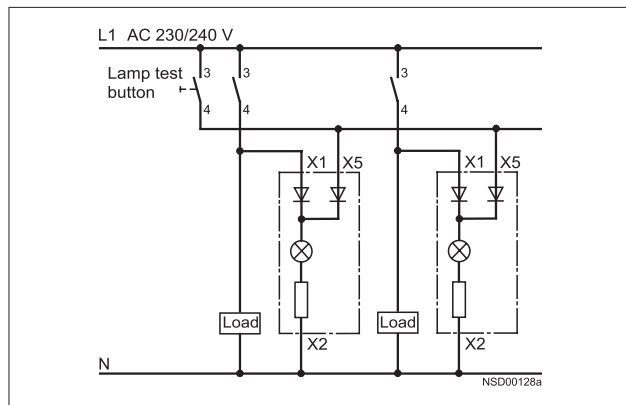


Support terminal

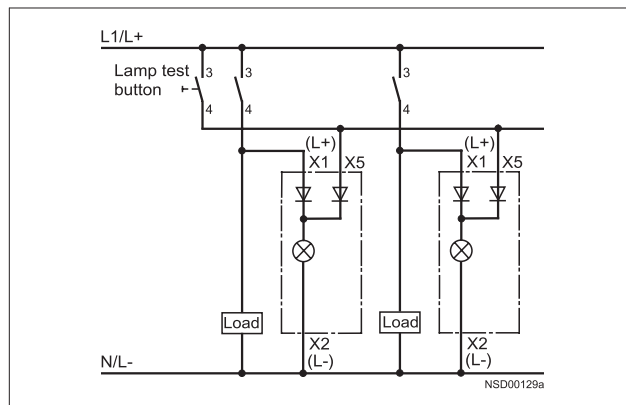


Typical circuits

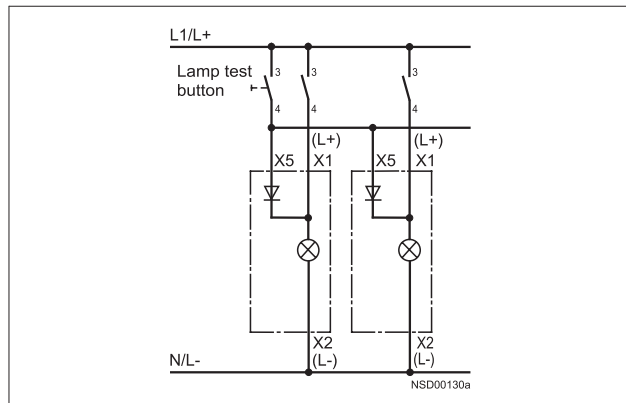
3SB14 00-2N or 3SB34 00-1F lampholder
incl. 130 V incandescent lamp



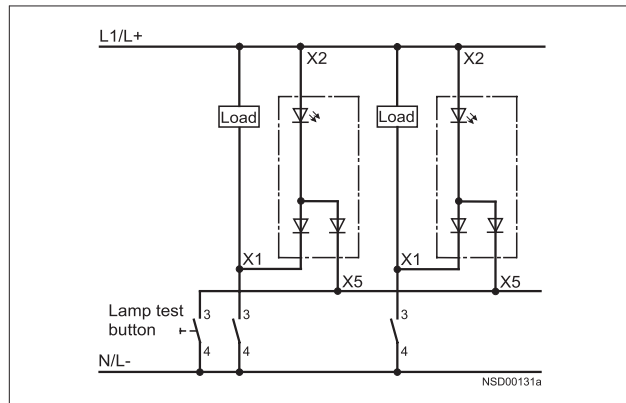
3SB14 00-2P or 3SB34 00-1G lampholder
for incandescent lamps up to 2.6 W or AC/DC LED lamps



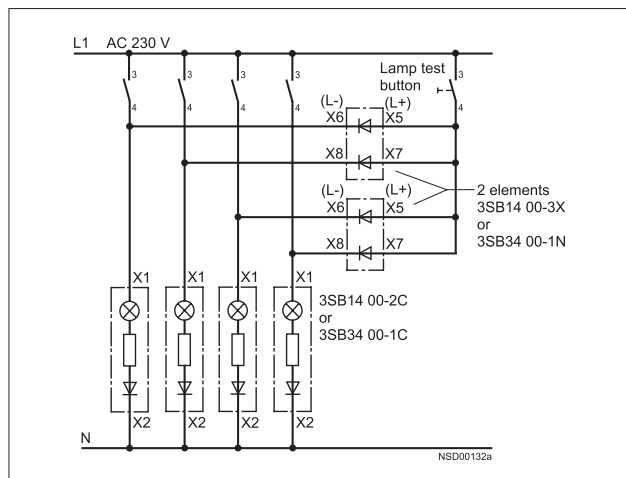
3SB14 00-2Q or 3SB34 00-1H lampholder
for incandescent lamp to 2.6 W or
AC neon bulbs or AC/DC LED lamps



3SB34 00-1L lampholder
for incandescent lamp up to 2.6 W or
DC LED lamps



Typical lamp test circuit with
with 3SB14 00-3X or 3SB34 00-1N



Application examples for 3SB14 00-3X and 3SB34 00-1N diode elements

- Lamp test circuit,
- Interference suppression,
- Limiting voltage peaks,
- Limiting DC coils,
- Diode gates,
- Rectifier circuits.

The diode element contains two 1N 4007 diodes. The element can be snapped onto the gear push button as required.

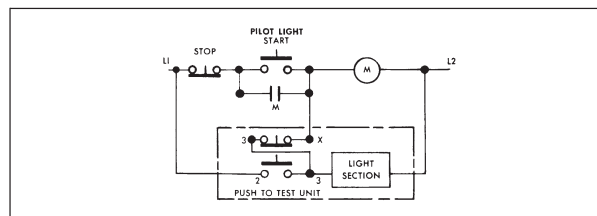
Notes on using the lampholders with separate lamp test function

When connected in parallel with inductive loads (e.g. contactors), surge suppression required.

The 3SB14 00-2Q and 3SB34 00-1H elements are not suitable for use with a parallel load.

Example of a typical push to test circuit using a standard, illuminated push-button transformer type with 1 NO + 1 NC contact. e.g. Illuminated Pilot Light components require to make-up a 120 V red raised push to test transformer type use (1) each of the following components:

- 3SB3 001-0BA21
- 52AABN
- 3SB3 400-0B
- 3SB3 400-1A
- 3SB3 400-3M
- 3SB3 400-0C

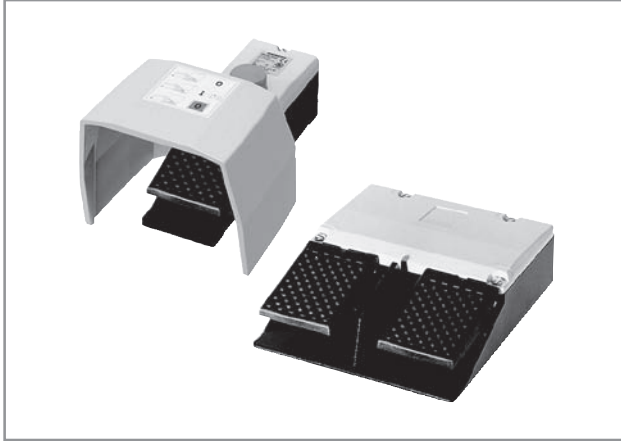


Push Button Units and Indicator Lights

3SE2, 3SE3 Foot Switches

Plastic and metal enclosures

Overview



Foot switches with metal enclosures

Standard switches

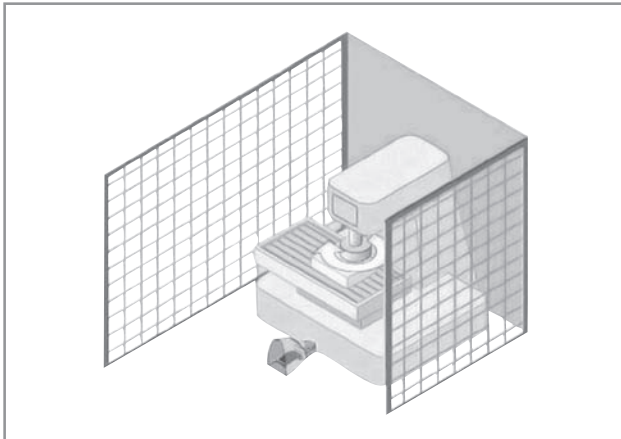
The 3SE2 9 and 3SE3 9 foot switch range encompasses versions in a metal enclosure for rugged applications as well as versions with plastic enclosure for less harsh environments. The devices can be supplied with or without a cover and have fixing holes for them to be screwed to the floor.

Depending on the particular application, the metal enclosures can be ordered in latching or momentary-contact versions. The momentary-contact pedal switch in the plastic enclosure has one microswitch (changeover contact) per actuating pedal.

Safety foot switches

The 3SE2 924-3AA20 single-pedal safety foot switches are used on machines and plants as OK switches when operation by hand is not possible and the EMERGENCY-STOP function must be available if a hazardous status arises. The switches are interlocked according to EN ISO 13850 and bear the CE mark in accordance with the machinery directive.

The safety foot switches are protected by a guard hood against accidental operation.



Application example

The switches have two contact blocks, each with one NO contact and one NC contact. The NO contacts and NC contacts of the two contact blocks are connected for easy connection of a single-phase motor. The normal workflow is initiated by pressing down the pedal as far as the pressure point so that the two NO contacts close and the motor starts to run.

If in the event of danger the pedal is pressed beyond the resistance of the pressure point, the positively driven NC contacts will open and the motor is stopped. At the same time the independent latching takes effect and holds the NC contacts in open position. This prevents the machine parts from continuing to run out of control or from being restarted.

After the hazard is eliminated, the machine can only be restarted after manually releasing the switch using a push button on the top of the enclosure. The contacts are then released again and return to their initial position (the NO contacts are open and the NC contacts are closed).

Technical specifications

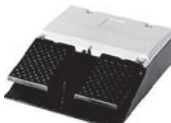
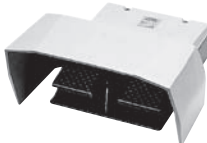
Type	3SE29	3SE39
Metal and plastic enclosures		
Standards	IEC 60947-5-1	
Electrical load		
• At AC-15, 400 V		
- 1 NO + 1 NC A	16	—
- 2 NO + 2 NC A	6	—
- 3SE2 924-3AA20 (2 NO + 2 NC) A	16	—
• At 250 V AC A	—	5
Short-circuit protection		
- 1 NO + 1 NC / 3SE2 924-3AA20 A	16 (slow)	—
- 2 NO + 2 NC A	6 (slow)	—
- 1 CO contact A	—	5 (slow)
Mechanical endurance	> 10 ⁶ operating cycles	
Material		
• Enclosures	Aluminum casting	Impact-resistant thermoplast, self-extinguishing according to UL 94 VO
• Covers	Thermoplast	—
• Guard hoods	Aluminum casting	Metal
Degree of protection	IP65	IP65
Ambient temperature °C	-25 ... +80	-10 ... +75
Connection	Cable entry, metric	Cable AWG20, UL Style 2464, length 3 m

Push Button Units and Indicator Lights

3SE2, 3SE3 Foot Switches

Plastic and metal enclosures

Selection and ordering data

Version	Slow-action contacts for each pedal	DT	Order No.	PU (UNIT, SET, M)	PS
Metal enclosures, degree of protection IP65					
	Momentary-contact foot switches, single pedal M20 x 1.5 cable entry				
	• Without hood	1 NO + 1 NC	➡ A	3SE2 902-0AB20	1 1 unit
		2 NO + 2 NC	➡ A	3SE2 903-1AB20	1 1 unit
	• With hood	1 NO + 1 NC	➡ A	3SE2 902-0AA20	1 1 unit
		2 NO + 2 NC	➡ A	3SE2 903-1AA20	1 1 unit
	Momentary-contact foot switches, single pedal M20 x 1.5 cable entry				
	• Without hood	1 NO + 1 NC	➡ C	3SE2 912-2AB20	1 1 unit
	• With hood	1 NO + 1 NC	➡ C	3SE2 912-2AA20	1 1 unit
	Momentary-contact foot switches, two pedals M25 x 1.5 cable entry				
	• Without hood	1 NO + 1 NC	➡ B	3SE2 932-0AB20	1 1 unit
		2 NO + 2 NC	➡ B	3SE2 932-1AB20	1 1 unit
	• With hood	1 NO + 1 NC	➡ B	3SE2 932-0AA20	1 1 unit
		2 NO + 2 NC	➡ B	3SE2 932-1AA20	1 1 unit
	Safety foot switches, single pedal, with hood, M20 x 1.5 cable entry, with interlock according to ISO 13850, NO closes as momentary contact type, NC opens with latching		2 NO + 2 NC ➡ C	3SE2 924-3AA20	1 1 unit
Plastic enclosures, degree of protection IP65					
	Momentary-contact pedal switches, 3 m cable				
	• Single pedal				
	- Without hood	1 CO contact	B	3SE3 902-4CB20	1 1 unit
	- With hood	1 CO contact	B	3SE3 902-4CA20	1 1 unit
	• Two pedals, without hood	2 × 1 CO	B	3SE3 934-5CB20	1 1 unit

➡ Positive opening according to IEC 60947-5-1, Appendix K.

➡ Positive opening according to IEC 60947-5-1, Appendix K.

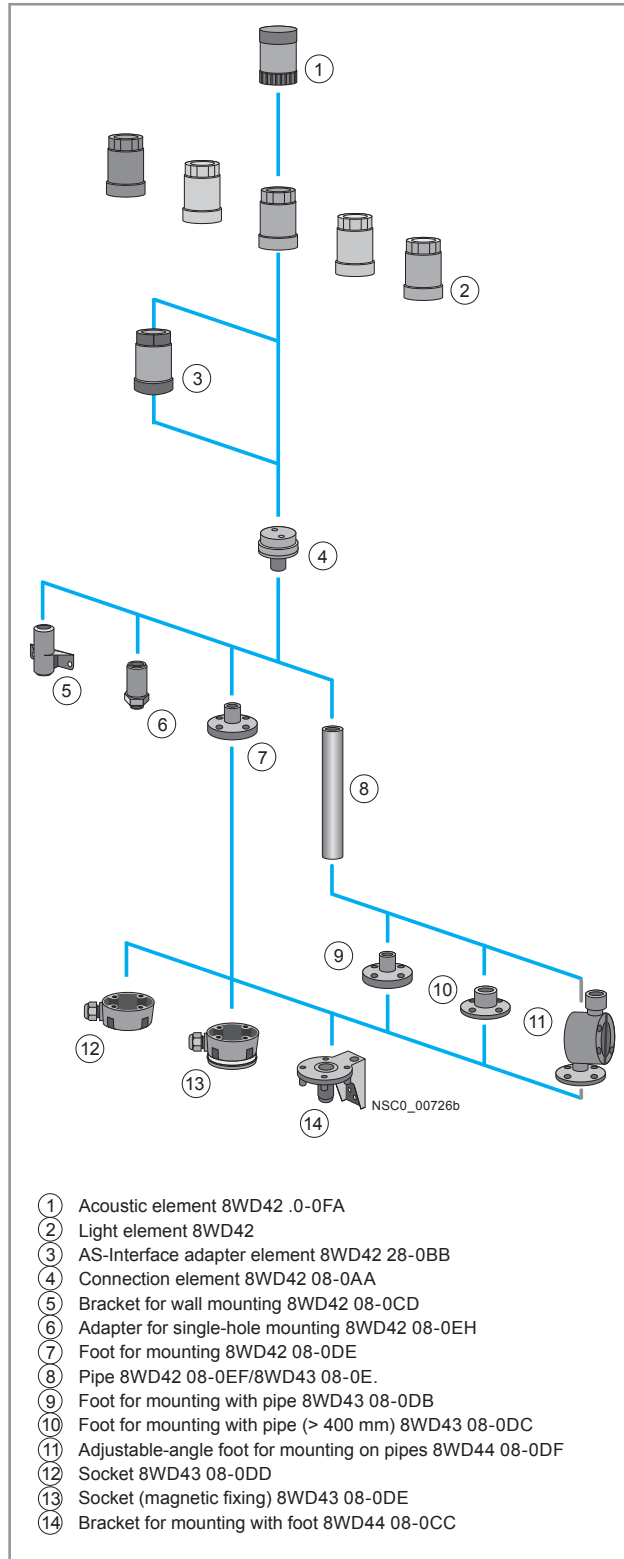
Push Button Units and Indicator Lights

8WD4 Signaling Columns

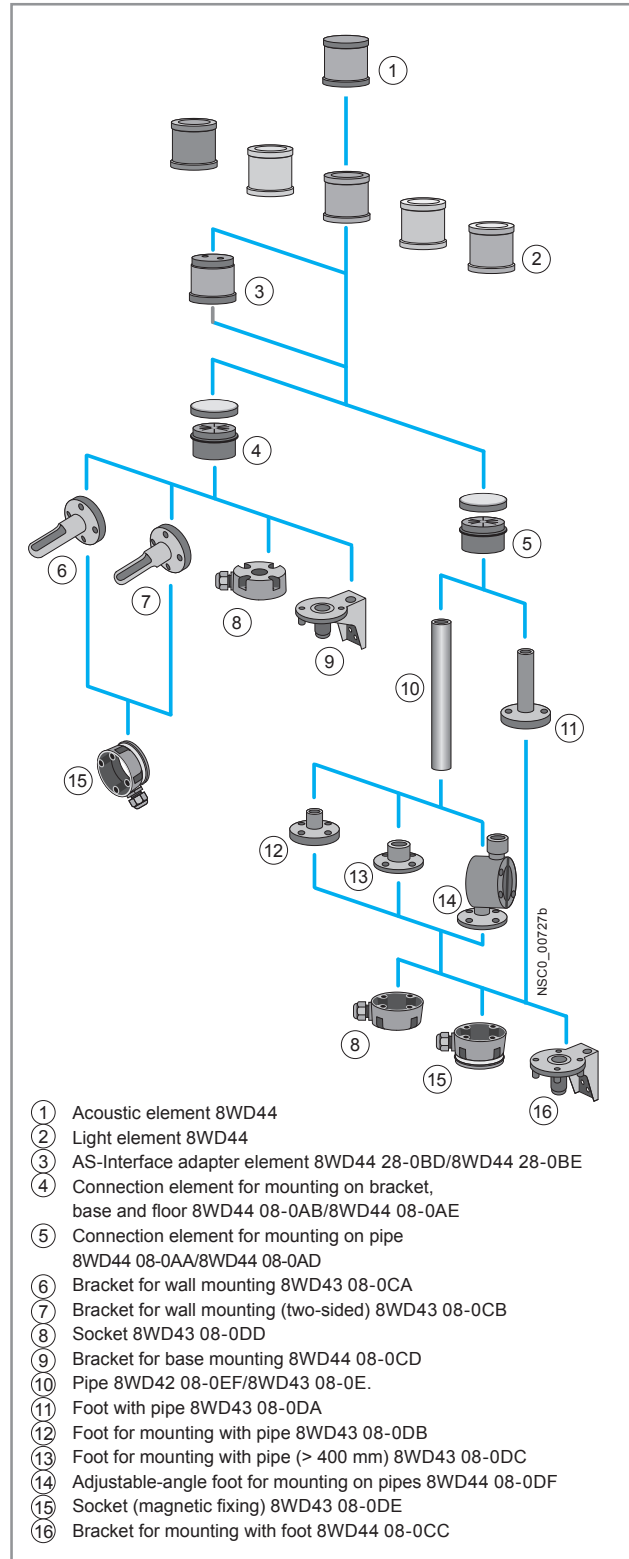
General Data

Overview

The 8WD4 signaling columns are flexible in design and versatile in use.



8WD42 signaling columns (width 50 mm) with up to 4 elements



8WD44 signaling columns (width 70 mm) with up to 5 elements

Push Button Units and Indicator Lights

8WD4 Signaling Columns

General Data

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Two product series are available:

- 8WD42
 - Thermoplast enclosure, diameter 50 mm
 - Degree of protection IP54
 - Up to 4 elements can be mounted between the connection element and the cover
- 8WD44
 - Thermoplast enclosure, diameter 70 mm
 - Advanced design and significantly improved illumination
 - Faster and more flexible connection using spring-type terminals
 - Integrated degree of protection IP65
 - Up to 5 elements can be mounted between the connection element and the cover



Signaling columns, mounting examples

The illustrated examples are from the left:

- 8WD42: Cover (no No.), 4 light elements ②, connection element ④, pipe ⑧, foot ⑨
- 8WD44: Acoustic element with integral cover ①, 2 light elements ②, connection element ⑤, foot with pipe ⑪
- 8WD44: Cover (no No.), 4 light elements ②, AS-Interface adapter element ③, connection element ④, bracket for wall mounting ⑥
- 8WD44: Cover (no No.), 3 light elements ②, AS-Interface adapter element ③, connection element ⑤, foot with pipe ⑪

Note:

The cover is supplied with the connection element; it is not needed with the acoustic element.

Benefits

- Choice of various light and acoustic elements with different functions: continuous light, blinklight, flashlight and rotating light; buzzer and siren
- Light elements with particularly long-lasting LEDs
- Variety of colors: red, yellow, green, white or blue
- Optimized illumination through improved prism technology with the 8WD44
- Acoustic elements can be adjusted in tone and volume
- Extremely resistant to shock and vibrations
- Easy connection and quick lamp change with secure bayonet mechanism
- Communication capability through connection to AS-Interface

Application

8WD4 signaling columns are used in machines or in automatic processes for monitoring complex procedures or as visual or acoustic warning devices in emergency situations, e.g. for displaying individual assembly stages.

Communication capability

Connection to AS-Interface

The 8WD4 signaling columns can be directly connected to the AS-Interface bus system through an adapter element that can be integrated in the column. Wiring outlay is reduced as the result. The two-wire bus cable is fixed to the terminals in the connection element. Up to four signaling elements can be mounted on it using an adapter element.

A/B technology enables the connection of up to 62 slaves on one AS-Interface system.

Connection

The signaling elements are wired up using the screw terminals in the connection element, screw terminals on the 8WD42 and screw or spring-type terminals on the 8WD44.

Cable outlet

The connecting cables can be guided either downwards or sideways through the cable gland using an adapter that can be screwed under the foot. This makes wiring easier if there is no access from below.

Connection to AS-Interface



8WD42:

The two-wire bus cable is fixed to the screw terminals in the connection element. The adapter element must be the first module to be mounted on the connection element. A maximum of 4 signaling elements can then be mounted on it.

The adapter element 8WD42 28-0BB is a standard slave.

8WD44:

The two-wire bus cable is fixed to the screw or spring-type terminals in the connection element. The adapter element must be the first module to be mounted on the connection element. The signaling elements can then be mounted on it.

The adapter element 8WD44 28-0BE is a standard slave. A maximum of 4 signaling elements can be mounted on it.

The adapter element 8WD44 28-0BD with A/B technology enables the connection of up to 62 slaves on one AS-Interface system. The addressing socket provides user-friendly parameterization of the AS-Interface elements. A maximum of 3 signaling elements can be mounted on it.

Push Button Units and Indicator Lights

8WD4 Signaling Columns

General Data

Technical specifications

Type	8WD42	8WD44
General data		
Approvals	UL, CSA	UL, CSA
Light and acoustic elements		
Rated voltage, power consumption		
Light elements with incandescent lamp	(AC values for 50/60 Hz)	(AC values for 50/60 Hz)
• Continuous light	12 V, 24 V, 115 V, 230 V AC/DC	12 V, 24 V, 115 V, 230 V AC/DC
• Blinklight	24 V AC/DC/125 mA; 115 V AC/20 mA; 230 V AC/15 mA	24 V AC/DC/125 mA; 115 V AC/20 mA; 230 V AC/15 mA
• Flashlights	—	24 V DC/125 mA; 115 V AC/20 mA; 230 V AC/35 mA
• Max. inrush current, blinklight/flashlight	—	500 mA
Light elements with integrated LED		
• Continuous light	24 V AC/DC/60 mA	24 V AC/DC/45 mA; 115 V AC/DC/25 mA; 230 V AC/25 mA
• Blinklight	—	24 V AC/DC/40 mA
• Rotating light	—	24 V AC/DC/70 mA
Acoustic elements		
• Buzzer element (tone: pulsating or continuous, 85 dB)	24 V AC/DC/25 mA; 115 V AC/DC/25 mA; 230 V AC/25 mA	24 V AC/DC/25 mA; 115 V AC/DC/25 mA; 230 V AC/25 mA
• Siren element (8 tones + amplification can be set, 100 dB)	—	24 V AC/DC/80 mA; 115 V AC/30 mA; 230 V AC/16 mA
• Siren element (108 dB)	—	24 V DC/100 mA
Power consumption		
• Incandescent lamps, base BA 15d	W	7
• Flashlight, flash energy	Ws	2
Endurance		
• Flashlights	4 x 10 ⁶ flashes	4 x 10 ⁶ flashes
AS-Interface adapter elements		
IO code/ID code	8/F	8/E
Power supply		
• Operational voltage	V	Through bus cable
• Power consumption I_{max}	mA	18.5 ... 31.6
		50
Protective measures		
• Watchdog	✓	✓
• Short-circuit/overload protection	External back-up fuse M 1.6 A	✓
• Reverse polarity protection	✓	✓
• Induction protection	N/A	✓
Outputs		
• Load voltage	V	4 Relay outputs
	V	External auxiliary voltage
		0 ... 30 DC
		0 ... 230 AC
• Current carrying capacity ΣI_{max}		3 solid-state outputs
- With external auxiliary voltage	A	through bus cable or external auxiliary voltage, switch-selectable
- Without external auxiliary voltage	A	
		0.3
		0.2
Operating temperature	°C	-20 ... +50
		-20 ... +50
Enclosures		
Enclosure material	Thermoplast (polyamide), impact-resistant, black	Thermoplast (polyamide), impact-resistant, black
Light elements	Thermoplast (polycarbonate)	Thermoplast (polycarbonate)
Mounting		
• Horizontal (floor mounting, foot with 25 mm Ø pipe)	✓	✓
• Horizontal (single-hole mounting)	✓	—
• Vertical with bracket	✓	✓
Degree of protection		
• Light elements	IP54	IP65 (seal premounted with every module)
• Acoustic elements, AS-i adapter elements	IP54	IP65
Operating temperature	°C	-20 ... +50
		-20 ... +50
Connection		
• Conductor cross-sections	mm ²	M3 screw terminal
• Tightening torque	Nm	Spring-type terminals/M3 screw terminals
		Max. 2.5
		- / Max. 0.5

Push Button Units and Indicator Lights

8WD4 Signaling Columns

8WD42 signaling columns, 50 mm diameter

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Overview

Features:

- Thermoplast enclosure, diameter 50 mm
- Degree of protection IP54
- Up to 4 elements can be mounted

Selection and ordering data

Version	Rated voltage	Color	DT	Order No.	PU (UNIT, SET, M)	PS	PG	
	V							
Acoustic elements ¹⁾								
	Buzzer elements 80 dB, pulsating or continuous tone, adjust- able by means of a wire jumper	24 AC/DC	Black	A	8WD42 20-0FA	1	1 unit	41J
		115 AC		A	8WD42 40-0FA	1	1 unit	41J
		230 AC		A	8WD42 50-0FA	1	1 unit	41J
Light elements for incandescent lamps/LEDs, BA 15d bases ²⁾								
	Continuous light elements	24 ... 230 AC/DC	Red	A	8WD42 00-1AB	1	1 unit	41J
			Green	A	8WD42 00-1AC	1	1 unit	41J
			Yellow	A	8WD42 00-1AD	1	1 unit	41J
			Clear	A	8WD42 00-1AE	1	1 unit	41J
			Blue	A	8WD42 00-1AF	1	1 unit	41J
Light elements with integrated LED								
	Continuous light elements	24 AC/DC	Red	A	8WD42 20-5AB	1	1 unit	41J
			Green	A	8WD42 20-5AC	1	1 unit	41J
			Yellow	A	8WD42 20-5AD	1	1 unit	41J
			Clear	X	8WD42 20-5AE	1	1 unit	41J
			Blue	X	8WD42 20-5AF	1	1 unit	41J
  	Blinklight elements	24 AC/DC	Red	A	8WD42 20-5BB	1	1 unit	41J
			Green	A	8WD42 20-5BC	1	1 unit	41J
			Yellow	A	8WD42 20-5BD	1	1 unit	41J
			Clear	A	8WD42 20-5BE	1	1 unit	41J
			Blue	A	8WD42 20-5BF	1	1 unit	41J
		115 AC	Red	A	8WD42 40-5BB	1	1 unit	41J
			Green	A	8WD42 40-5BC	1	1 unit	41J
			Yellow	A	8WD42 40-5BD	1	1 unit	41J
			Clear	D	8WD42 40-5BE	1	1 unit	41J
			Blue	D	8WD42 40-5BF	1	1 unit	41J
	230 AC	Red	A	8WD42 50-5BB	1	1 unit	41J	
		Green	A	8WD42 50-5BC	1	1 unit	41J	
		Yellow	A	8WD42 50-5BD	1	1 unit	41J	
		Clear	A	8WD42 50-5BE	1	1 unit	41J	
		Blue	A	8WD42 50-5BF	1	1 unit	41J	
Adapter elements for AS-Interface								
	AS-Interface adapter elements with external auxiliary voltage	For 4 signaling ele- ments 24 V DC	Black	A	8WD42 28-0BB	1	1 unit	41J
								
Connection elements ³⁾								
	Connection elements with cover For mounting on pipes, floors and angles		Black	A	8WD42 08-0AA	1	1 unit	41J

¹⁾ One acoustic element can be mounted per signaling column. The cover is included in the scope of supply of the acoustic elements and fixed in place.

²⁾ The lamp is not included in the scope of supply. Please order separately.

³⁾ The connection element with cover is an essential part for assembling the signaling columns.

Note:

For mounting and configuring aid see the publication "Versatile, robust, communication-capable: SIRIUS signaling columns and integrated signal lamps", Order No. E20001-A670-P305.

Push Button Units and Indicator Lights

8WD4 Signaling Columns

8WD42 signaling columns, 50 mm diameter

Version	Rated voltage	Color	DT	Order No.	PU (UNIT, SET, M)	PS	
V							
Lamps							
	Incandescent lamps, 5 W Base BA 15d	24 AC/DC	A	8WD43 28-1XX	1	10 units	
		115 AC	A	8WD43 48-1XX	1	10 units	
		230 AC	A	8WD43 58-1XX	1	10 units	
	LEDs Base BA 15d	24 AC/DC	Red	A	8WD44 28-6XB	1	1 unit
			Green	A	8WD44 28-6XC	1	1 unit
			Yellow	A	8WD44 28-6XD	1	1 unit
			Clear	A	8WD44 28-6XE	1	1 unit
			Blue	A	8WD44 28-6XF	1	1 unit
		115 AC	Red	A	8WD44 48-6XB	1	1 unit
			Green	A	8WD44 48-6XC	1	1 unit
			Yellow	A	8WD44 48-6XD	1	1 unit
			Clear	A	8WD44 48-6XE	1	1 unit
			Blue	A	8WD44 48-6XF	1	1 unit
		230 AC	Red	A	8WD44 58-6XB	1	1 unit
			Green	A	8WD44 58-6XC	1	1 unit
			Yellow	A	8WD44 58-6XD	1	1 unit
			Clear	A	8WD44 58-6XE	1	1 unit
			Blue	A	8WD44 58-6XF	1	1 unit
Mounting							
	Feet, single	Plastic, for mounting on pipes	A	8WD43 08-0DB	1	1 unit	
		Metal, for pipe lengths > 400 mm	A	8WD43 08-0DC	1	1 unit	
		Plastic, for floor mounting (without pipe)	A	8WD42 08-0DE	1	1 unit	
	Adjustable-angle feet for positioning in 7.5° increments ¹⁾	Plastic, for mounting on pipes, incl. rubber seal	X	8WD44 08-0DF	1	1 unit	
	Pipes, single	Length 100 mm	A	8WD42 08-0EF	1	1 unit	
		Length 150 mm	A	8WD43 08-0EE	1	1 unit	
		Length 250 mm	A	8WD43 08-0EA	1	1 unit	
		Length 400 mm	A	8WD43 08-0EB	1	1 unit	
		Length 1000 mm	A	8WD43 08-0ED	1	1 unit	
	Sockets for feet	Side cable outlet	A	8WD43 08-0DD	1	1 unit	
		Side cable outlet, with magnetic fixing ²⁾	A	8WD43 08-0DE	1	1 unit	
	Brackets for mounting with foot		A	8WD44 08-0CC	1	1 unit	
	Brackets for wall mounting (plastic)	Mounting without feet and pipe	A	8WD42 08-0CD	1	1 unit	
	Adapters for single-hole mounting	Mounting without feet and pipe, with M18 thread and fixing nut	A	8WD42 08-0EH	1	1 unit	

For labeling panels see 8WD44, page 10/118.

¹⁾ Markings for 30°, 45°, 60° and 90°.

²⁾ For horizontal mounting, only 1 element is recommended.

Push Button Units and Indicator Lights

8WD4 Signaling Columns

8WD44 signaling columns, 70 mm diameter

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Overview

Features:

- Thermoplast enclosure, diameter 70 mm
- Advanced design and significantly improved illumination

- Fast and flexible connection using spring-type terminals
- Integrated degree of protection IP65
- Up to 5 elements can be mounted

Selection and ordering data

Version	Rated voltage	Color	DT	Order No.	PU (UNIT, SET, M)	PS
V						
Acoustic elements ¹⁾						
	Buzzer elements 85 dB, pulsating or continuous tone, adjust- able by means of a wire jumper	24 AC/DC	Black	A	8WD44 20-0FA	1 1 unit
		115 AC		A	8WD44 40-0FA	1 1 unit
		230 AC		A	8WD44 50-0FA	1 1 unit
	Siren elements , multi-tone, 100 dB, 8 tones and volume are adjustable	24 AC/DC	Black	A	8WD44 20-0EA2	1 1 unit
		115 AC		A	8WD44 40-0EA2	1 1 unit
		230 AC		A	8WD44 50-0EA2	1 1 unit
	Siren elements 108 dB, IP40	24 DC	Black	A	8WD44 20-0EA	1 1 unit
Light elements for incandescent lamps/LEDs, BA 15d bases ²⁾						
	Continuous light elements	12 ... 230 AC/DC	Red	A	8WD44 00-1AB	1 1 unit
			Green	A	8WD44 00-1AC	1 1 unit
			Yellow	A	8WD44 00-1AD	1 1 unit
			Clear	A	8WD44 00-1AE	1 1 unit
			Blue	A	8WD44 00-1AF	1 1 unit
	Blinklight elements	24 AC/DC	Red	A	8WD44 20-1BB	1 1 unit
			Green	A	8WD44 20-1BC	1 1 unit
			Yellow	A	8WD44 20-1BD	1 1 unit
			Clear	A	8WD44 20-1BE	1 1 unit
			Blue	A	8WD44 20-1BF	1 1 unit
		115 AC	Red	A	8WD44 40-1BB	1 1 unit
			Green	A	8WD44 40-1BC	1 1 unit
			Yellow	A	8WD44 40-1BD	1 1 unit
			Clear	A	8WD44 40-1BE	1 1 unit
			Blue	A	8WD44 40-1BF	1 1 unit
		230 AC	Red	A	8WD44 50-1BB	1 1 unit
			Green	A	8WD44 50-1BC	1 1 unit
			Yellow	A	8WD44 50-1BD	1 1 unit
			Clear	A	8WD44 50-1BE	1 1 unit
			Blue	A	8WD44 50-1BF	1 1 unit
			Light elements with integrated flash lamps ³⁾			
	Flashlight elements with integrated electronic flash	24 DC	Red	A	8WD44 20-0CB	1 1 unit
			Green	A	8WD44 20-0CC	1 1 unit
			Yellow	A	8WD44 20-0CD	1 1 unit
			Clear	A	8WD44 20-0CE	1 1 unit
			Blue	A	8WD44 20-0CF	1 1 unit
		115 AC	Red	A	8WD44 40-0CB	1 1 unit
			Green	D	8WD44 40-0CC	1 1 unit
			Yellow	A	8WD44 40-0CD	1 1 unit
			Clear	D	8WD44 40-0CE	1 1 unit
			Blue	D	8WD44 40-0CF	1 1 unit
		230 AC	Red	A	8WD44 50-0CB	1 1 unit
			Green	A	8WD44 50-0CC	1 1 unit
			Yellow	A	8WD44 50-0CD	1 1 unit
			Clear	A	8WD44 50-0CE	1 1 unit
			Blue	A	8WD44 50-0CF	1 1 unit

¹⁾ One acoustic element can be mounted per signaling column. The cover is included in the scope of supply of the acoustic elements and fixed in place.

²⁾ The lamp is not included in the scope of supply. Please order separately.

³⁾ The lamp is included in the scope of supply.

Push Button Units and Indicator Lights

8WD4 Signaling Columns

8WD44 signaling columns, 70 mm diameter

Version	Rated voltage	Color	DT	Order No.	PU (UNIT, SET, M)	PS		
V								
Light elements with integrated LED								
      	Continuous light elements	24 AC/DC	Red	A	8WD44 20-5AB	1	1 unit	
			Green	A	8WD44 20-5AC	1	1 unit	
			Yellow	A	8WD44 20-5AD	1	1 unit	
			Clear	A	8WD44 20-5AE	1	1 unit	
			Blue	A	8WD44 20-5AF	1	1 unit	
		115 AC	Red	A	8WD44 40-5AB	1	1 unit	
			Green	A	8WD44 40-5AC	1	1 unit	
			Yellow	A	8WD44 40-5AD	1	1 unit	
			Clear	A	8WD44 40-5AE	1	1 unit	
			Blue	A	8WD44 40-5AF	1	1 unit	
		230 AC	Red	A	8WD44 50-5AB	1	1 unit	
			Green	A	8WD44 50-5AC	1	1 unit	
			Yellow	A	8WD44 50-5AD	1	1 unit	
			Clear	A	8WD44 50-5AE	1	1 unit	
			Blue	A	8WD44 50-5AF	1	1 unit	
   	Blinklight elements	24 AC/DC	Red	A	8WD44 20-5BB	1	1 unit	
			Green	A	8WD44 20-5BC	1	1 unit	
			Yellow	A	8WD44 20-5BD	1	1 unit	
			Clear	X	8WD44 20-5BE	1	1 unit	
			Blue	A	8WD44 20-5BF	1	1 unit	
		115 AC	Red	A	8WD44 40-5BB	1	1 unit	
			Green	A	8WD44 40-5BC	1	1 unit	
			Yellow	A	8WD44 40-5BD	1	1 unit	
			Clear	A	8WD44 40-5BE	1	1 unit	
			Blue	A	8WD44 40-5BF	1	1 unit	
		230 AC	Red	A	8WD44 50-5BB	1	1 unit	
			Green	A	8WD44 50-5BC	1	1 unit	
			Yellow	A	8WD44 50-5BD	1	1 unit	
			Clear	A	8WD44 50-5BE	1	1 unit	
			Blue	A	8WD44 50-5BF	1	1 unit	
	Rotating light elements	24 AC/DC	Red	A	8WD44 20-5DB	1	1 unit	
			Green	A	8WD44 20-5DC	1	1 unit	
			Yellow	A	8WD44 20-5DD	1	1 unit	
Adapter elements for AS-Interface								
	AS-Interface adapter elements							
	With/without external auxiliary voltage, switchable							
	• A/B technology				For 3 signaling elements 24 V DC	Black	A	8WD44 28-0BD
	• Standard AS-i		For 4 signaling elements 24 V DC	Black	A	8WD44 28-0BE	1	1 unit
Connection elements ¹⁾								
	Connection elements with cover		Black					
	Screw terminals							
	• For mounting on pipes			A	8WD44 08-0AA	1	1 unit	
	• For mounting on brackets and floors			A	8WD44 08-0AB	1	1 unit	
	Spring-type terminals							
	• For mounting on pipes			A	8WD44 08-0AD	1	1 unit	
	• For mounting on brackets and floors			A	8WD44 08-0AE	1	1 unit	
	Cover (replacement)			A	8WD44 08-0XA	1	1 unit	

¹⁾ The connection element with cover is an essential part for assembling the signaling columns.

• Revised •
11/15/14

Push Button Units and Indicator Lights

8WD4 Signaling Columns

8WD44 signaling columns, 70 mm diameter

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Version			DT	Order No.	PU (UNIT, SET, M)	PS
Mounting						
	Foot with pipe	Plastic foot with pipe length 100 mm	A	8WD43 08-0DA	1	1 unit
	Feet, single	Plastic, for mounting on pipes	A	8WD43 08-0DB	1	1 unit
		Metal, for pipe lengths > 400 mm	A	8WD43 08-0DC	1	1 unit
	Adjustable-angle feet for positioning in 7.5° increments ¹⁾	Plastic, for mounting on pipes, incl. rubber seal	X	8WD44 08-0DF	1	1 unit
	Pipes, single	Length 100 mm	A	8WD42 08-0EF	1	1 unit
		Length 150 mm	A	8WD43 08-0EE	1	1 unit
		Length 250 mm	A	8WD43 08-0EA	1	1 unit
		Length 400 mm	A	8WD43 08-0EB	1	1 unit
		Length 1000 mm	A	8WD43 08-0ED	1	1 unit
	Sockets for feet	Side cable outlet (can also be used without feet)	A	8WD43 08-0DD	1	1 unit
		Side cable outlet, with magnetic fixing ²⁾	A	8WD43 08-0DE	1	1 unit
	Brackets for wall mounting (mounting without feet and pipe)	For single-sided mounting	A	8WD43 08-0CA	1	1 unit
		For double-sided mounting	A	8WD43 08-0CB	1	1 unit
	Brackets for mounting with foot		A	8WD44 08-0CC	1	1 unit
	Brackets for base mounting	Mounting without feet and pipe	A	8WD44 08-0CD	1	1 unit
	Adapter for mounting on pipes according to NPT	Mounting on pipes, Ø 25 mm, with NPT 1/2" thread	A	8WD43 08-0DF	1	1 unit

¹⁾ Markings for 30°, 45°, 60° and 90°.

²⁾ For horizontal mounting, only 1 element is recommended.

Note:

For mounting and configuring aid see the publication "Versatile, robust, communication-capable: SIRIUS signaling columns and integrated signal lamps", Order No. E20001-A670-P305.

Push Button Units and Indicator Lights

8WD4 Signaling Columns

8WD44 signaling columns, 70 mm diameter

Version	Rated voltage	Color	DT	Order No.	PU (UNIT, SET, M)	PS
V						
Lamps						
	Incandescent lamps, 5 W					
	Base BA 15d	24 AC/DC	A	8WD43 28-1XX	1	10 units
		115 AC	A	8WD43 48-1XX	1	10 units
		230 AC	A	8WD43 58-1XX	1	10 units
	LEDs					
	Base BA 15d	24 AC/DC	Red	A 8WD44 28-6XB	1	1 unit
			Green	A 8WD44 28-6XC	1	1 unit
			Yellow	A 8WD44 28-6XD	1	1 unit
			Clear	A 8WD44 28-6XE	1	1 unit
			Blue	A 8WD44 28-6XF	1	1 unit
		115 AC	Red	A 8WD44 48-6XB	1	1 unit
			Green	A 8WD44 48-6XC	1	1 unit
			Yellow	A 8WD44 48-6XD	1	1 unit
			Clear	A 8WD44 48-6XE	1	1 unit
			Blue	A 8WD44 48-6XF	1	1 unit
		230 AC	Red	A 8WD44 58-6XB	1	1 unit
			Green	A 8WD44 58-6XC	1	1 unit
			Yellow	A 8WD44 58-6XD	1	1 unit
			Clear	A 8WD44 58-6XE	1	1 unit
			Blue	A 8WD44 58-6XF	1	1 unit
Inscriptions						
	Labeling panels		A	8WD44 08-0FA	1	1 unit
	With fixing accessories for mounting on pipe Ø 25 mm Inscription area/ step 50 mm x 140 mm Suitable for standard labels, e.g. • Zweckform 3425 • Herma 4457					

Overview



Integrated signal lamps

Design

Features:

- Thermoplast enclosures, diameter 70 mm
- Degree of protection IP65
- Rated voltage 24 V, 115 V, 230 V AC/DC
- Ambient temperature -20 to +50 °C, incandescent lamp up to 60 °C

The special shape of the integrated signal lamps means that the light is emitted optimally in every direction (to the sides and upwards). Continuous lights (with incandescent lamp or LED) and single-flash lights are available in five colors.

The LED versions of the integrated signal lamps offer a considerably longer endurance than the incandescent lamp versions.

All integrated signal lamps have a high degree of protection IP65 and are made of a material highly resistant to impact.

Mounting

8WD53 integrated signal lamps can be mounted directly at any point of the machine for the purpose of giving visual signals. They are mounted by means of a PG29 screw base with nut.

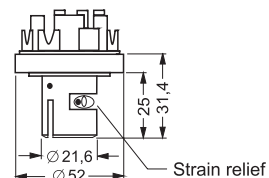
Selection and ordering data

Version	Rated voltage	Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS	PG
V								
Luminaires for incandescent lamps/LED, BA 15d base								
	Continuous light ¹⁾	12 ... 230 AC/DC	Red	A	8WD53 00-1AB	1	1 unit	41J
			Green	A	8WD53 00-1AC	1	1 unit	41J
			Yellow	A	8WD53 00-1AD	1	1 unit	41J
			Clear	A	8WD53 00-1AE	1	1 unit	41J
			Blue	A	8WD53 00-1AF	1	1 unit	41J
Luminaires with integrated flash lamp								
	Single-flash light with integrated electronic flash	24 AC/DC	Red	A	8WD53 20-0CB	1	1 unit	41J
			Green	D	8WD53 20-0CC	1	1 unit	41J
			Yellow	A	8WD53 20-0CD	1	1 unit	41J
			Clear	A	8WD53 20-0CE	1	1 unit	41J
			Blue	A	8WD53 20-0CF	1	1 unit	41J
		115 AC	Red	A	8WD53 40-0CB	1	1 unit	41J
			Green	D	8WD53 40-0CC	1	1 unit	41J
			Yellow	D	8WD53 40-0CD	1	1 unit	41J
			Clear	D	8WD53 40-0CE	1	1 unit	41J
			Blue	D	8WD53 40-0CF	1	1 unit	41J
		230 AC	Red	A	8WD53 50-0CB	1	1 unit	41J
			Green	D	8WD53 50-0CC	1	1 unit	41J
			Yellow	A	8WD53 50-0CD	1	1 unit	41J
			Clear	A	8WD53 50-0CE	1	1 unit	41J
			Blue	D	8WD53 50-0CF	1	1 unit	41J
Luminaires with integrated LED								
	Continuous light	24 AC/DC	Red	A	8WD53 20-5AB	1	1 unit	41J
			Green	A	8WD53 20-5AC	1	1 unit	41J
			Yellow	A	8WD53 20-5AD	1	1 unit	41J
	Blinklight lamps	24 AC/DC	Red	A	8WD53 20-5BB	1	1 unit	41J
			Green	D	8WD53 20-5BC	1	1 unit	41J
			Yellow	A	8WD53 20-5BD	1	1 unit	41J
	Rotating light	24 AC/DC	Red	A	8WD53 20-5DB	1	1 unit	41J
			Green	A	8WD53 20-5DC	1	1 unit	41J
			Yellow	A	8WD53 20-5DD	1	1 unit	41J

For incandescent lamps and LEDs
see "Signaling Columns" page 10/118

¹⁾ Lamp not included in scope of supply. Please order separately.

Dimension drawings



Push Button Units and Indicator Lights

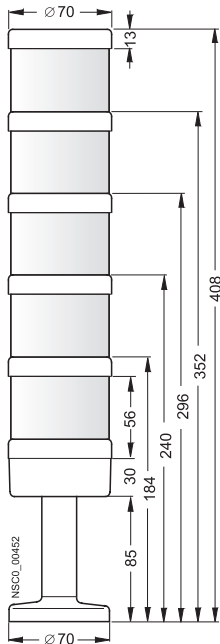
8WD4 Signaling Columns

Dimension drawings

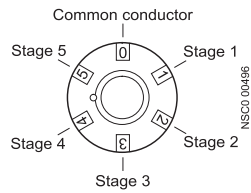
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Dimension drawings

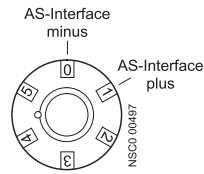
Signaling column (5-tier)



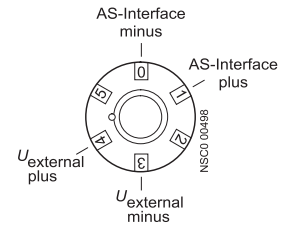
Connection diagrams



conventional

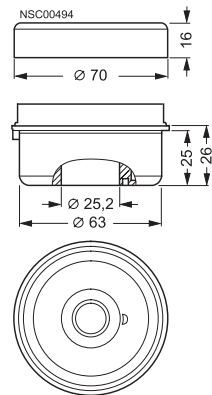


with AS-Interface,
without external auxiliary
voltage

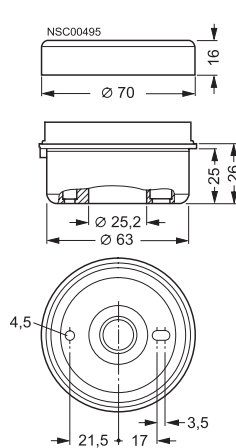


with external auxiliary voltage

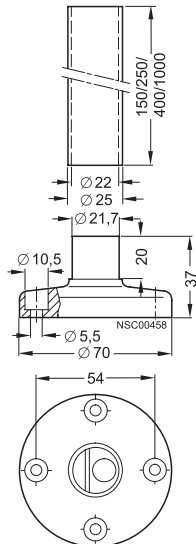
Connection element and cover for mounting on pipes



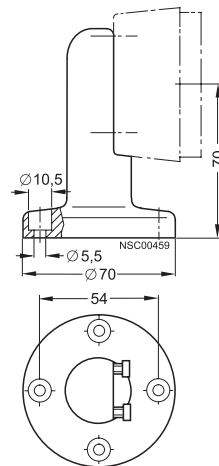
Connection element and cover for mounting on floor/bracket



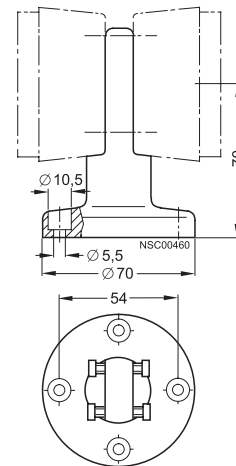
Foot with pipe



Bracket for single-sided mounting



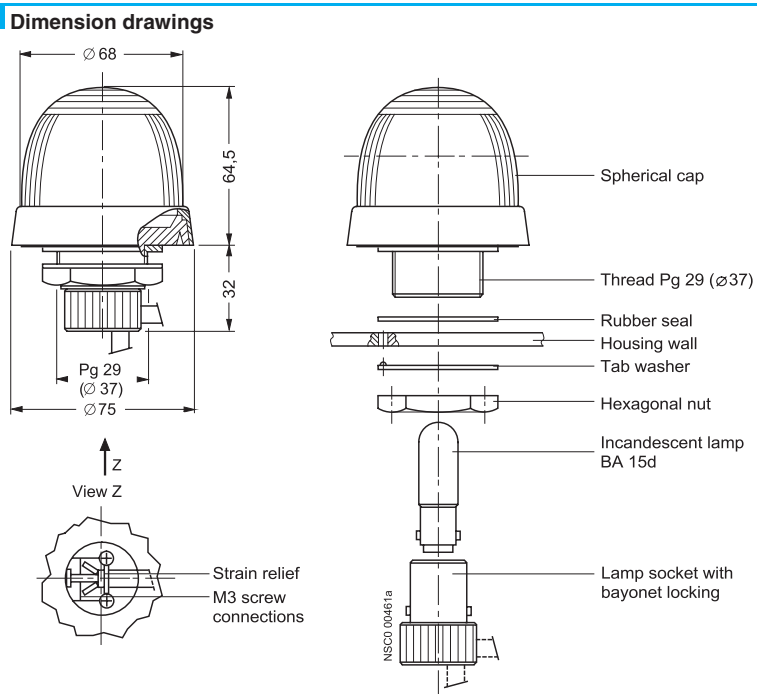
Bracket for double-sided mounting



Push Button Units and Indicator Lights

8WD53 Beacons

Dimension drawings



Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

General

Features

- Snap In Legend Inserts
- Flush and Surface Mounted Types
- Convertible Selector
- Double Break Contacts
- Dual Voltage Pilot Light with Snap In Lens
- Conversion Kits
- UL Listed File #E22655
- CSA Certified File #LR6535

Application

Standard duty control stations are used with magnetic controllers to control the starting, stopping, reversing or speed of applicable motors.

Stations are assembled of one, two or three push button, selector switch or pilot light units in a variety of combinations to provide compact control units for remote control of magnetic starters and contactors.

Station enclosures are available in Type 1 surface mounted, 1B flush plate mounted and 4 watertight.

Features

Type 1 surface mounted bases are constructed of 14 gauge sheet steel, primed and finished in baked gray enamel. The base is predrilled to receive a variety of contact blocks, pilot lights and accessory devices. Covers are of 20 gauge sheet steel, wrap-around construction, primed and finished in baked gray enamel. Siemens Type 4 watertight heavy duty push button stations are supplied with a provision to padlock the stop button in the depressed position. Enclosures are predrilled and tapped for 3/4" conduit.

Contact blocks have double break, fine silver contacts with a NEMA B600 rating. Type 4 stations have a NEMA A600 rating.

The pilot light assembly is dual voltage with clearly marked pressure type terminals for 120 volt or 240 volt connection.

The lens of the pilot light snaps into the cover and is available in both red and green.

Push buttons are equipped with an operator into which a selected legend insert is snapped. Legend inserts are molded thermoplastic and come in a wide variety of legends and colors.

The selector switch operator can be instantly set for two or three positions at any time.

Mushroom Head

50ZMH mounts on any standard push button operator. The Mushroom Head is red molded thermoplastic, 1 1/2" in diameter, and provides a large operator for emergency stop or similar applications.

Mechanical Interlock

50ZAM is a base mounted zinc plate, dichromate dipped, steel assembly. When mounted in conjunction with Duplex Contact Block 50ZAC3 (one NO and one NC) the interlock prevents one contact from being closed while the other contact is closed.

Padlock Attachment Kit

50ZAL can be mounted to any Type 1 surface mounted station by the lower screw which fastens the cover to the station base. Made of heavy steel, chrome plated, the attachment provides for the padlocking of a push button in the depressed position or a selector switch in any position. When used with a push button operator, raised Legend Insert D53493003 (Red Stop) must be used.

Electrical Ratings

NEMA AC Ratings 50/60Hz

Nema B600 5 Continuous Amps

Volts	Make	Break
120	30	3
240	15	1.5
480	7.5	0.75
600	6	0.6
VA	3600	360

Ordering Information

- Legend Inserts [see page 10/130](#).
- Accessories [see page 10/130](#).



2 Push Buttons
Surface Mounting, NEMA 1



2 Push Buttons
Flush Mounting, NEMA 1B



1 Push Button
Surface Mounting



1 Selector Switch
Flush Mounting



2 Push Buttons
1 Selector Switch



1 Pilot Light
2 Push Buttons

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

5A 600V AC NEMA B600

Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	Packs
						Unit
	A = Momentary flush pushbutton green, surface, label "START"	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3D	1
	A = Momentary flush pushbutton red, surface, label "STOP"	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3E	1
	A = Momentary raised pushbutton red, surface, label "STOP"	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3F	1
	A = Momentary mushroom head red, surface, label "STOP"	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3G	1
	A = Momentary flush pushbutton less insert, surface	NEMA 1	1NO - 1NC with common jumper (50ZAC1)	1	50AA3A	1
	A = 3 position selector switch, surface, label "HAND-OFF-AUTO"	NEMA 1	2 NO 2SPST (50ZAC8)	1	50AA3C3	1
	A = 2 position selector switch, surface, label "Off-On"	NEMA 1	2 NO 2SPST (50ZAC8)	1	50AA3C6	1
	A = 2/3 selector switch, surface, multiple legends	NEMA 1	2 NO 2SPST (50ZAC8)	1	50AA3B9	1
	A = Indicator light, red, surface	NEMA 1	120/240V dual voltage 120PSB lamp	1	50BA3Y	1
	A = Indicator light, green, surface	NEMA 1	120/240V dual voltage 120PSB lamp	1	50BA3Z	1
	A = Indicator light, less lens, surface	NEMA 1	120/240V dual voltage 120PSB lamp	1	50BA32	1
	A = Momentary flush pushbutton green, flush, label "START"	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA2D	1
	A = Momentary flush pushbutton red, flush, label "STOP"	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA2E	1
	A = Momentary raised pushbutton red, flush, label "STOP"	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA2F	1
	A = Momentary flush pushbutton less insert, flush	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA2A	1
	A = Momentary flush pushbutton less insert, flush, chrome plate	NEMA 1B	1NO - 1NC with common jumper (50ZAC1)	1	50AA6A	1
	A = 3 position selector switch, flush, label "HAND-OFF-AUTO"	NEMA 1B	2 NO 2SPST (50ZAC8)	1	50AA2C3	1
	A = 3 position selector switch, flush, label "Off-On"	NEMA 1B	2 NO 2SPST (50ZAC8)	1	50AA2C6	1
	A = 2/3 selector switch, multiple legends, flush	NEMA 1B	2 NO 2SPST (50ZAC8)	1	50AA2B9	1
	A = 2/3 selector switch, multiple legends, chrome plate, flush	NEMA 1B	2 NO 2SPST (50ZAC8)	1	50AA6B9	1
	A = Indicator light, red, flush	NEMA 1B	120/240V dual voltage	1	50BA2Y	1
	A = Indicator light, green, flush	NEMA 1B	120/240V dual voltage	1	50BA2Z	1
	A = Indicator light, less lens, flush	NEMA 1B	120/240V dual voltage	1	50BA22	1
	A = Indicator light, less lens, chrome plate, flush	NEMA 1B	120PSB lamp	1	50BA62	1
	B = Momentary pushbutton green, surface, label "START"	NEMA 1	1NO, 1NC (50ZAC2)	2	50CA3DE	1
	A = Momentary pushbutton red, surface, label "STOP"					
	B = Momentary pushbutton green, surface, label "START"	NEMA 1	1NO, 1NC (50ZAC2)	2	50CA3DF	1
	A = Momentary raised pushbutton red, surface, label "STOP"					
	B = Momentary pushbutton green, surface, label "START"	NEMA 1	1NO, 1NC (50ZAC2)	2	50CA3DG	1
	A = Momentary mushroom head pushbutton red, surface, label "STOP"					
	B = Momentary pushbutton, less insert, surface	NEMA 1	1NO, 1NC (50ZAC2)	2	50CA3AA	1
	A = Momentary pushbutton, less insert, surface					
	B = Momentary pushbutton, surface, label "FORWARD"	NEMA 1	2 NO (50ZAC3)	2	50DA3KL	1
	A = Momentary pushbutton, surface, label "REVERSE"					

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

5A 600V AC NEMA B600

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Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	Packs
						Unit
2 unit surface mount-momentary pushbutton 	B = Momentary pushbutton, surface, label "OPEN" A = Momentary pushbutton, surface, label "CLOSE"	NEMA 1	2 NO (50ZAC3)	2	50DA3HJ	1
	B = Momentary pushbutton, surface, label "UP" A = Momentary pushbutton, surface, label "DOWN"	NEMA 1	2 NO (50ZAC3)	2	50DA3NP	1
	B = Momentary pushbutton, surface, less insert A = Momentary pushbutton, surface, less insert	NEMA 1	2 NO (50ZAC3)	2	50DA3AA	1
	B = Momentary pushbutton, surface, label "FORWARD" A = Momentary pushbutton, surface, label "REVERSE"	NEMA 1	2 NO mechanically inter-locked (50ZA3C w/ 50ZAM)	2	50RA3KL	1
	B = Momentary pushbutton, surface, label "OPEN" A = Momentary pushbutton, surface, label "CLOSE"	NEMA 1	2 NO mechanically inter-locked (50ZA3C w/ 50ZAM)	2	50RA3HJ	1
	B = Momentary pushbutton, surface, label "UP" A = Momentary pushbutton, surface, label "DOWN"	NEMA 1	2 NO mechanically inter-locked (50ZA3C w/ 50ZAM)	2	50RA3NP	1
	B = Momentary pushbutton, surface, label "ON" A = Momentary pushbutton, surface, label "OFF"	NEMA 1	2 NO mechanically inter-locked (50ZA3C w/ 50ZAM)	2	50RA334	1
	B = Momentary pushbutton, less insert surface A = Momentary pushbutton, less insert, surface	NEMA 1	2 NO mechanically inter-locked (50ZA3C w/ 50ZAM)	2	50RA3AA	1
	B = Momentary pushbutton, surface, label "FORWARD" A = Momentary pushbutton, surface, label "REVERSE"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA3KL	1
	B = Momentary pushbutton, surface, label "OPEN" A = Momentary pushbutton, surface, label "CLOSE"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA3HJ	1
	B = Momentary pushbutton, surface, label "UP" A = Momentary pushbutton, surface, label "DOWN"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA3NP	1
	B = Momentary pushbutton, surface, label "ON" A = Momentary pushbutton, surface, label "OFF"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA334	1
	B = Momentary pushbutton, surface, less insert A = Momentary pushbutton, surface, less insert	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	2	50EA3AA	1
2 unit flush mount-momentary pushbutton 	B = Momentary pushbutton green, flush, label "START" A = Momentary pushbutton red, flush, label "STOP"	NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA2DE	1
	B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush	NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA2AA	1
	B = Momentary pushbutton green, flush, label "START" A = Momentary raised pushbutton red, flush, label "STOP"	NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA2DF	1
	B = Momentary pushbutton green, flush, label "START" A = Momentary mushroom head pushbutton red, flush, label "STOP"	NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA2DG	1
	B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush	NEMA 1B	1NO, 1NC (50ZAC2)	2	50CA6AA	1

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

5A 600V AC NEMA A600

Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	Packs
						Unit
2 unit flush mount-momentary pushbutton	B = Momentary pushbutton, flush, label "FORWARD" A = Momentary pushbutton, flush, label "REVERSE"	NEMA 1B	2 NO (50ZAC3)	2	50DA2KL	1
	B = Momentary pushbutton, flush, label "OPEN" A = Momentary pushbutton, flush, label "CLOSE"	NEMA 1B	2 NO (50ZAC3)	2	50DA2HJ	1
	B = Momentary pushbutton, flush, label "UP" A = Momentary pushbutton, flush, label "DOWN"	NEMA 1B	2 NO (50ZAC3)	2	50DA2NP	1
	B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush	NEMA 1B	2 NO (50ZAC3)	2	50DA2AA	1
	B = Momentary pushbutton, less insert, chrome plate, flush A = Momentary pushbutton, less insert, chrome plate, flush	NEMA 1B	2 NO (50ZAC3)	2	50DA6AA	1
	B = Momentary pushbutton, flush, label "FORWARD" A = Momentary pushbutton, flush, label "REVERSE"	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA2KL	1
	B = Momentary pushbutton, flush, label "OPEN" A = Momentary pushbutton, flush, label "CLOSE"	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA2HJ	1
	B = Momentary pushbutton, flush, label "UP" A = Momentary pushbutton, flush, label "DOWN"	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA2NP	1
	B = Momentary pushbutton, flush, label "ON" A = Momentary pushbutton, flush, label "OFF"	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA234	1
	B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA2AA	1
	B = Momentary pushbutton, less insert, chrome plate, flush A = Momentary pushbutton, less insert, chrome plate, flush	NEMA 1B	2 NO mechanically interlocked (50ZA3C w/ 50ZAM)	2	50RA6AA	1
	B = Momentary pushbutton, flush, label "FORWARD" A = Momentary pushbutton, flush, label "REVERSE"	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA2KL	1
	B = Momentary pushbutton, flush, label "OPEN" A = Momentary pushbutton, flush, label "CLOSE"	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA2HJ	1
	B = Momentary pushbutton, flush, label "UP" A = Momentary pushbutton, flush, label "DOWN"	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA2NP	1
	B = Momentary pushbutton, flush, label "ON" A = Momentary pushbutton, flush, label "OFF"	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA234	1
	B = Momentary pushbutton, less insert, flush A = Momentary pushbutton, less insert, flush	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA2AA	1
	B = Momentary pushbutton, less insert, chrome plate, flush A = Momentary pushbutton, less insert, chrome plate, flush	NEMA 1B	2 NO, 2 NC (2 - 50ZAC2)	2	50EA6AA	1

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

5A 600V AC NEMA B600

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Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	Packs
						Unit
2 unit surface mount-momentary pushbutton and selector switch	B = Momentary pushbutton green, surface, label "START"	NEMA 1	1NO, 1NC (50ZAC1)	2	50FA3DC3	1
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"		2 NO 2SPDT w/ common jumper (50ZAC8)			
	B = Momentary pushbutton less insert, surface	NEMA 1	1NO, 1NC (50ZAC1)	2	50FA3AB9	1
	A = Maintained selector switch, multiple legends, surface		2 NO 2SPDT w/ common jumper (50ZAC8)			
	B = Indicator light, red, surface	NEMA 1	120/240V dual voltage (120PSB lamp)	2	50HA3YC3	1
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"		2 NO 2SPDT w/ common jumper (50ZAC8)			
2 unit surface mount-momentary pushbutton and indicator light	B = Indicator light, red, surface	NEMA 1	120/240V dual voltage (120PSB lamp)	2	50HA32B9	1
	A = Maintained selector switch, multiple legends, surface		2 NO 2SPDT w/ common jumper (50ZAC8)			
	B = Indicator light, green, surface	NEMA 1	120/240V dual voltage (120PSB lamp)	2	50GA3ZY	1
	A = Indicator light, red, surface					
	B = Indicator light, less lens, surface	NEMA 1	120/240V dual voltage (120PSB lamp)	2	50GA322	1
	A = Indicator light, less lens, surface					
2 unit flush mount-momentary pushbutton and selector switch	B = Momentary pushbutton green, flush, label "START"	NEMA 1B	1NO, 1NC (50ZAC1)	2	50FA2DC3	1
	A = Maintained selector switch, flush, label "HAND-OFF-AUTO"		2 NO 2SPDT w/ common jumper (50ZAC8)			
	B = Momentary pushbutton less insert, flush	NEMA 1B	1NO, 1NC (50ZAC1)	2	50FA2AB9	1
	A = Maintained selector switch, multiple legends, flush		2 NO 2SPDT w/ common jumper (50ZAC8)			
	B = Momentary pushbutton less insert chrome plate, flush	NEMA 1B	1NO, 1NC (50ZAC1)	2	50FA6AB9	1
	A = Maintained selector switch, multiple legends, flush		2 NO 2SPDT w/ common jumper (50ZAC8)			
	B = Indicator light, red, flush	NEMA 1B	120/240V dual voltage (120PSB lamp)	2	50HA2YC3	1
	A = Maintained selector switch, flush, label "HAND-OFF-AUTO"		2 NO 2SPDT w/ common jumper (50ZAC8)			
	B = Indicator light, less lens, flush	NEMA 1B	120/240V dual voltage (120PSB lamp)	2	50HA22B9	1
	A = Maintained selector switch, multiple legends, flush		2 NO 2SPDT w/ common jumper (50ZAC8)			
	B = Indicator light, less lens, chrome plate, flush	NEMA 1B	120/240V dual voltage (120PSB lamp)	2	50HA62B9	1
	A = Maintained selector switch, multiple legends, flush		2 NO 2SPDT w/ common jumper (50ZAC8)			
2 unit flush mount-momentary pushbutton and indicator light	B = Indicator light, green, flush	NEMA 1B	120/240V dual voltage (120PSB lamp)	2	50GA2ZY	1
	A = Indicator light, red, flush					
	B = Indicator light, less lens, flush	NEMA 1B	120/240V dual voltage (120PSB lamp)	2	50GA222	1
	A = Indicator light, less lens, flush					
	B = Indicator light, less lens, chrome plate, flush	NEMA 1B	120/240V dual voltage (120PSB lamp)	2	50GA622	1
	A = Indicator light, less lens, chrome plate, flush					
3 unit surface mount-momentary pushbutton	C = Momentary pushbutton, surface, label "FORWARD"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	3	50MA3KLE	1
	B = Momentary pushbutton, surface, label "REVERSE"		1NO - 1NC with common jumper (50ZAC1)			
	A = Momentary pushbutton, surface, label "STOP"					
	C = Momentary pushbutton, surface, label "UP"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	3	50MA3NPE	1
	B = Momentary pushbutton, surface, label "DOWN"		1NO - 1NC with common jumper (50ZAC1)			
	A = Momentary pushbutton, surface, label "STOP"					
	C = Momentary pushbutton, surface, label "OPEN"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2)	3	50MA3HJE	1
	B = Momentary pushbutton, surface, label "CLOSE"		1NO - 1NC with common jumper (50ZAC1)			
	A = Momentary pushbutton, surface, label "STOP"					

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

5A 600V AC NEMA B600

Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	Packs
						Unit
3 unit surface mount-momentary pushbutton	C = Momentary pushbutton, surface, label "FAST"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2) 1NO - 1NC with common jumper (50ZAC1)	3	50MA3TUE	1
	B = Momentary pushbutton, surface, label "SLOW"					
	A = Momentary pushbutton, surface, label "STOP"					
	C = Momentary pushbutton, surface, label "START"	NEMA 1	2 NO, 2 NC (2 - 50ZAC2) 1NO - 1NC with common jumper (50ZAC1)	3	50MA3DME	1
	B = Momentary pushbutton, surface, label "JOG"					
	A = Momentary pushbutton, surface, label "STOP"					
	C = Momentary pushbutton, surface, label less insert	NEMA 1	2 NO, 2 NC (2 - 50ZAC2) 1NO - 1NC with common jumper (50ZAC1)	3	50MA3AAA	1
	B = Momentary pushbutton, surface, label less insert					
	A = Momentary pushbutton, surface, label less insert					
3 unit surface mount-momentary pushbutton and selector switch	C = Momentary pushbutton, surface, label "START"	NEMA 1	1 NO, 1 NC (50ZAC2) 2 NO, 2 SPST with common jumper (50ZAC8)	3	50LA3DEC3	1
	B = Momentary pushbutton, surface, label "STOP"					
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"					
	C = Momentary pushbutton, less insert, surface	NEMA 1	1 NO, 1 NC (50ZAC2) 2 NO, 2 SPST with common jumper (50ZAC8)	3	50LA3AAB9	1
	B = Momentary pushbutton, less insert, surface					
	A = Maintained selector switch, multiple legends, surface					
3 unit surface mount-momentary pushbutton and indicator light	C = Indicator light, red, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 1 NO, 1 NC (50ZAC2)	3	50JA3YDE	1
	B = Momentary pushbutton, surface, label "START"					
	A = Momentary pushbutton, surface, label "STOP"					
	C = Indicator light, green, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 1 NO, 1 NC (50ZAC2)	3	50JA3ZDE	1
	B = Momentary pushbutton, surface, label "START"					
	A = Momentary pushbutton, surface, label "STOP"					
	C = Indicator light, less lens, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 1 NO, 1 NC (50ZAC2)	3	50JA32AA	1
	B = Momentary pushbutton, less insert, surface					
	A = Momentary pushbutton, less insert, surface					
	C = Indicator light, green, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 2 NO, 2 SPST with common jumper (50ZAC8)	3	50NA3ZYC3	1
	B = Indicator light, red, surface					
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"					
	C = Indicator light, less lens, surface	NEMA 1	120/240V dual voltage (120PSB lamp) 2 NO, 2 SPST with common jumper (50ZAC8)	3	50NA322B9	1
	B = Indicator light, less lens, surface					
	A = Maintained selector switch, multiple legends, surface					



Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

Heavy duty - 10A 600V AC NEMA A600

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Selection and ordering data

	Operator identification	Degree of protection	Contacts / voltage	Number of command points	Order No.	Packs
						Unit
	A = Momentary pushbutton green, surface, label "START"	NEMA 4	1NO - 1NC	1	50HA1E1	1
	A = Momentary pushbutton red, surface, label "STOP"	NEMA 4	1NO - 1NC	1	50HA1E2	1
	A = Momentary pushbutton green, surface, label "RESET"	NEMA 4	1NO - 1NC	1	50HA1E4	1
	A = Momentary pushbutton green, surface, label "JOG"	NEMA 4	1NO - 1NC	1	50HA1E5	1
	A = Maintained selector switch, surface, label "SAFE-RUN"	NEMA 4	1NO - 1NC	1	50HA1E6	1
	A = Maintained selector switch, surface, label "OFF-ON"	NEMA 4	1NO - 1NC	1	50HA1E7	1
	A = Maintained selector switch, surface, label "JOG-RUN"	NEMA 4	1NO - 1NC	1	50HA1E8	1
	A = Maintained selector switch, surface, label "HAND-OFF-AUTO"	NEMA 4	1NO - 1NC	1	50HA1E9	1
	B = Momentary pushbutton green, surface, label "START"	NEMA 4	1NO - 1NC	2	50HA2E1	1
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			
	B = Momentary pushbutton green, surface, label "FORWARD"	NEMA 4	1NO - 1NC	2	50HA2E2	1
	A = Momentary pushbutton red, surface, label "REVERSE"		1NO - 1NC			
	B = Momentary pushbutton green, surface, label "UP"	NEMA 4	1NO - 1NC	2	50HA2E3	1
	A = Momentary pushbutton red, surface, label "DOWN"		1NO - 1NC			
	B = Momentary pushbutton green, surface, label "OPEN"	NEMA 4	1NO - 1NC	2	50HA2E4	1
	A = Momentary pushbutton red, surface, label "CLOSE"		1NO - 1NC			
	B = Momentary pushbutton green, surface, label "FAST"	NEMA 4	1NO - 1NC	2	50HA2E5	1
	A = Momentary pushbutton red, surface, label "SLOW"		1NO - 1NC			
	C = Momentary pushbutton green, surface, label "FORWARD"	NEMA 4	1NO - 1NC	3	50HA3E1	1
	B = Momentary pushbutton green, surface, label "REVERSE"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			
	C = Momentary pushbutton green, surface, label "UP"	NEMA 4	1NO - 1NC	3	50HA3E2	1
	B = Momentary pushbutton green, surface, label "DOWN"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			
	C = Momentary pushbutton green, surface, label "OPEN"	NEMA 4	1NO - 1NC	3	50HA3E3	1
	B = Momentary pushbutton green, surface, label "CLOSE"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			
	C = Momentary pushbutton green, surface, label "START"	NEMA 4	1NO - 1NC	3	50HA3E9	1
	B = Momentary pushbutton green, surface, label "JOG"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			
	C = Momentary pushbutton green, surface, label "FAST"	NEMA 4	1NO - 1NC	3	50HA3E4	1
	B = Momentary pushbutton green, surface, label "SLOW"		1NO - 1NC			
	A = Momentary pushbutton red, surface, label "STOP"		1NO - 1NC			

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

Standard duty station accessories

Selection and ordering data

Legend inscription insert for snap-on mounting

Inscription	Color	Order No.	Pack
			Unit
Close	Orange	50D53493005	1
Down	Orange	50D53493010	1
Fast	Black	50D53493013	1
Forward	Green	50D53493006	1
High	Black	50D53493015	1
Hoist	Green	50D53493011	1
Jog	Black	50D53493008	1
Low	Black	50D53493016	1
Lower	Orange	50D53493012	1
Off	Red	50D53493018	1
On	Green	50D53493017	1
Open	Green	50D53493004	1
Reverse	Orange	50D53493007	1
Slow	Black	50D53493014	1
Start	Green	50D53493001	1
Stop	Red	50D53493002	1
Stop (raised)	Red	50D53493003	1
Up	Green	50D53493009	1

		Version	Suitable for	Color	Order No.	Pack
						Unit
		Mushroom head		Red	50ZMH	1
50ZAC1	50ZAC2	Padlock attachment	Used only for raised buttons		50ZAL	1
		Mechanical interlock kit			50ZAM	1
		Contact blocks				
		1NO, 1NC	Single button		50ZAC1	1
		2NO, 2SPST	Selector switch		50ZAC8	1
		1NO, 1NC	Two button		50ZAC2	1
		1NO, 1NO	Two button		50ZAC3	1
50ZAC8	50ZAC3					
		Pilot light	120/240V Dual Voltage, no lens		50ZAC6	1
		Pilot light lens		Red	50ZPL01	1
				Green	50ZPL02	1
		Replacement lamps	Class 50 type 1, 1B 120V		50D21983001	1
		Slide base, lamp type 120PSB				

Heavy duty station accessories

Version	Suitable for	Color	Order No.	Pack
				Unit
	NEMA 4 control stations	Red	BHP15X	1
	NEMA 4 control stations	Black	BHP16X	1

Pushbutton Units and Indicator Lights

Class 50 Standard Duty Pushbutton Stations

Standard duty - 5A 600V AC NEMA B600

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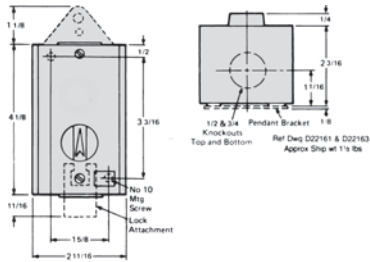
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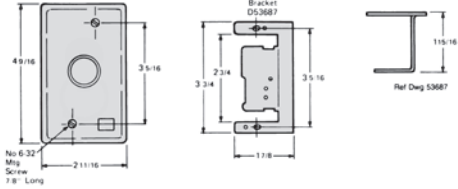
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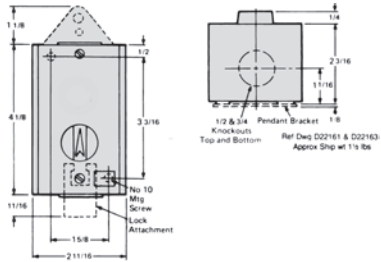
1 Unit Station Surface Mounting—Type 1



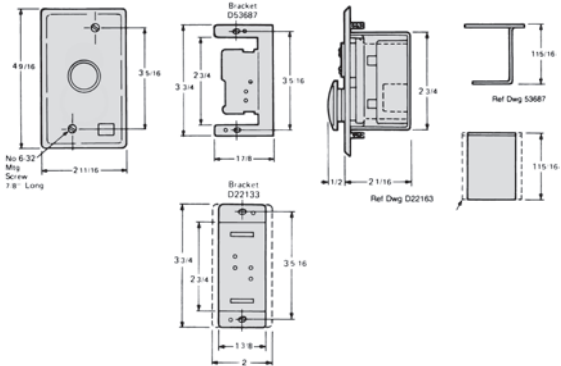
1 Unit Station Flush Mounting—Type 1B



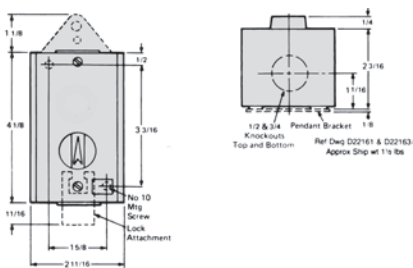
2 Pushbutton Stations Surface Mounting—Type 1



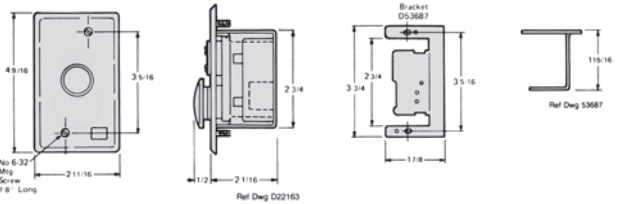
2 Pushbutton Stations Flush Mounting—Type 1B



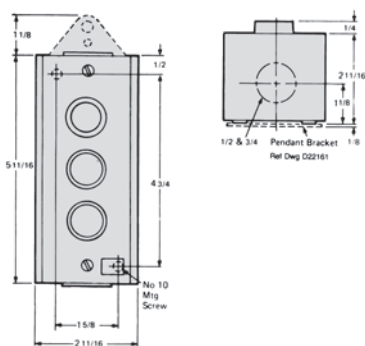
2 Unit Stations Surface Mounting—Type 1



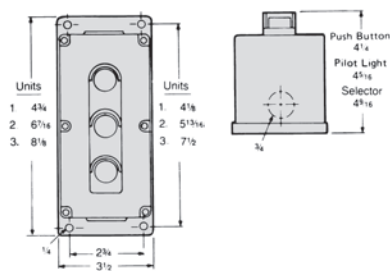
2 Unit Station Flush Mounting—Type 1B



3 Unit Stations Surface Mounting



1 Unit Stations—Type 4



Pushbutton Units and Indicator Lights

Class 51 Pilot Devices

Hazardous location

Features

- UL Listed and cUL Listed for Class I, Groups C & D and Class II, Groups E, F & G
- Short or Long Bushing Lengths
- Mount into 3/4-14 NPSM Threaded Hole
- Sealing Lock Nut
- Similar in Appearance to Class 52 Oil Tight Pilot Devices
- Double Break Bifurcated Contacts Rated AC NEMA A600, DC NEMA P600
- Ⓢ Positively Driven Contacts
- Touchsafe Terminals
- UL Listed File # E39935

Application

When properly installed in a Type 7 & 9 enclosure, these components meet the National Electrical Code's requirements for Class I, Division 1 & 2, Groups C and D hazardous gases, Class II, Division 1, Groups E, F and G hazardous dust, and Class III, hazardous fibers and flyings. Class 51 pilot devices may be used in a location where the presence of flammable gases, vapors or finely pulverized dusts in the atmosphere are sufficient to create a threat of explosion or fire. They may also be required where easily ignitable fibers or flyings are present. Short bushing units are used in most standard Type 7 & 9 enclosures. Long bushings are used when an additional front panel is required or in enclosures up to 2 V8 inches thick. Class 51 devices also meet Type 4 applications.

Rugged

Hazardous location control units are durable one piece castings of a corrosion resistant copper free aluminum alloy with stainless steel springs and type 316 stainless steel shafts to provide a long dependable life. The "O" ring ensures the longest seal life available. Contact blocks have double break bifurcated contacts for increased reliability.

Flexible

Control units mount into industry standard 3/4-14 NPSM threaded holes. Both short bushings for enclosure mounting and long bushings for panel mounting are available.

Pilot light bulbs are removable from the front for ease of maintenance. Many common parts between the Class 51 hazardous location pilot devices and the Class 52 oil tight pilot devices allow for increased serviceability with fewer parts.

Industrial Appearance

Hazardous location control units add luster to panels. They are uniform in appearance and match 52 Class oil tight pilot devices.

Typical Applications

Class I

Class II

Class III

Electrical Ratings

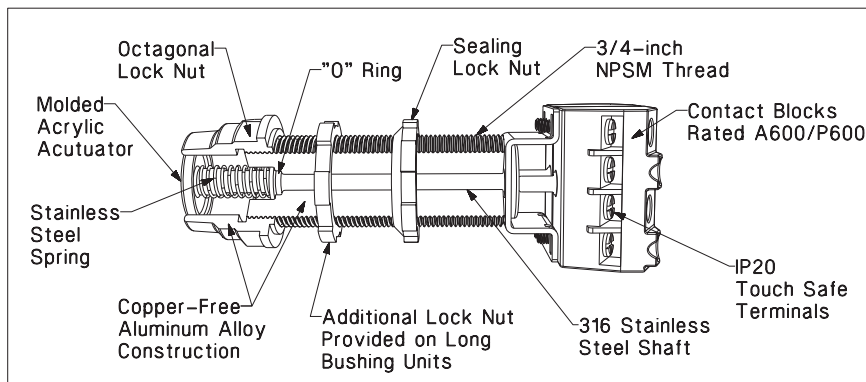
NEMA AC Ratings 50/60Hz

Nema A600 10 Continuous Amps

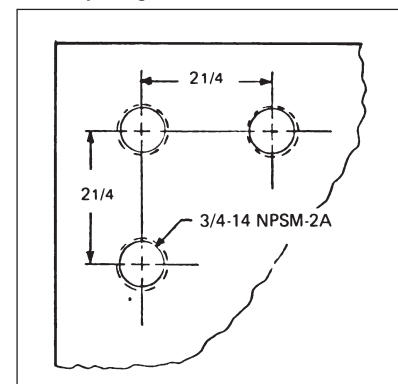
Volts	Make	Break
120	60	6
240	30	3
480	15	1.5
600	12	1.2
VA	7200	720

Ordering Information

- Accessories [see page 10/140-10/141](#).
- Selector Operating Position and Contact Operation [page 10/138](#).
- Legend Plates [see page 10/177](#).
- Enclosures [see page 10/139](#).
- Technical Specifications: [page 10/179](#).



Panel Spacing



Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Operators only

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Selection and ordering data

	Version	Color of operator	Contacts	Short bushing Order No.	Long bushing Order No.	Pack Unit
Pushbutton with flat cap 	Pushbutton with flush cap	Black		51PA8A1	51PA8A1LB	1
		Red		51PA8A2	51PA8A2LB	1
		Green		51PA8A3	51PA8A3LB	1
Pushbutton with extended cap 	Pushbutton with extended cap	Black		51PA8B1	51PA8B1LB	1
		Red		51PA8B2	51PA8B2LB	1
		Green		51PA8B3	51PA8B3LB	1
Dual pushbutton 	Dual Pushbutton	Flush Black		51PD8A1B2	51PD8A1B2LB	1
		Raised Red				
	Pushbutton with mushroom cap 1 5/8" (41.3mm)	Black		51PA9D1	51PA9D1LB	1
		Red		51PA9D2	51PA9D2LB	1
		Green		51PA9D3	51PA9D3LB	1
	Pushbutton with mushroom cap 2 1/2" (63.5mm)	Black		51PA9E1	51PA9E1LB	1
		Red		51PA9E2	51PA9E2LB	1
		Green		51PA9E3	51PA9E3LB	1
		Less head		51PA9	51PA9LB	1
2 position push-pull 	2 Position Push Pull Maintained, Non Illuminated Small Plastic Mushroom Head, 1 5/8" (41.3 mm)	Black		51PA2D1	51PA2D1LB	1
		Red		51PA2D2	51PA2D2LB	1
		Green		51PA2D3	51PA2D3LB	1
	Large Plastic Mushroom Head, 2 1/4" (57.2 mm)	Black		51PA2E1	51PA2E1LB	1
		Red		51PA2E2	51PA2E2LB	1
		Green		51PA2E3	51PA2E3LB	1
		Less head		51PA2	51PA2LB	1
	2 Position Push Pull Maintained, Non Illuminated Small Mushroom Head, 1 5/8" (41.3mm)	Black	1NC + 1NO	51PA2D1A	51PA2D1LBA	1
		Red	1NC + 1NO	51PA2D2A	51PA2D2LBA	1
		Green	1NC + 1NO	51PA2D3A	51PA2D3LBA	1
	Large Mushroom Head, 2 1/2" (63.5mm)	Black	1NC + 1NO	51PA2E1A	51PA2E1LBA	1
		Red	1NC + 1NO	51PA2E2A	51PA2E2LBA	1
		Green	1NC + 1NO	51PA2E3A	51PA2E3LBA	1
3 position push-pull 	3 Position Push Pull Momentary, Non Illuminated Small Mushroom Head, 1 5/8" (41.3mm)	Black	1NC + 1NO	51PA3A1U	51PA3A1ULB	1
		Red	1NC + 1NO	51PA3A2U	51PA3A2ULB	1
		Green	1NC + 1NO	51PA3A3U	51PA3A3ULB	1

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Indicator light

Selection and ordering data

	Version	Color of operator	Contacts	Short bushing Order No.	Long bushing Order No.	Pack Unit
 Indicator light- full voltage	Indicator light with glass lens - Full voltage type AC/DC (with 6" pigtail leads) ^{1) 3)}					
	Operators with Incandescent Lamp 6-8V with 755 type	Red Green Amber Less lens		51PC5B2 51PC5B3 51PC5B9 51PC5BN	51PC5B2LB 51PC5B3LB 51PC5B9LB 51PC5BNLB	1
	12V with 756 type	Red Green Amber Less lens		51PC5C2 51PC5C3 51PC5C9 51PC5CN	51PC5C2LB 51PC5C3LB 51PC5C9LB 51PC5CNLB	1
	24V with 757 type	Red Green Amber Less lens		51PC5D2 51PC5D3 51PC5D9 51PC5DN	51PC5D2LB 51PC5D3LB 51PC5D9LB 51PC5DNLB	1
	Operators with LED Lamp ²⁾ 6-8V with BA9 type LED	Red Green Amber		51PE5B2 51PE5B3 51PE5B9	51PE5B2LB 51PE5B3LB 51PE5B9LB	1
 Indicator light- transformer type	24V with BA9 type LED	Red Green Amber		51PE5D2 51PE5D3 51PE5D9	51PE5D2LB 51PE5D3LB 51PE5D9LB	1
	Indicator light with glass lens - Transformer type AC/DC ^{1) 3)}					
	Operators with Incandescent Lamp 120V with 6V 755 type lamp	Red Green Amber Less lens		51PC5G2 51PC5G3 51PC5G9 51PC5GN	51PC5G2LB 51PC5G3LB 51PC5G9LB 51PC5GNLB	1
	240V with 6V 755 type lamp	Red Green Amber Less lens		51PC5H2 51PC5H3 51PC5H9 51PC5HN	51PC5H2LB 51PC5H3LB 51PC5H9LB 51PC5HNLB	1
	480V with 6V 755 type lamp	Red Green Amber Less lens		51PC5J2 51PC5J3 51PC5J9 51PC5JN	51PC5J2LB 51PC5J3LB 51PC5J9LB 51PC5JNLB	1
	600V with 6V 755 type lamp	Red Green Amber Less lens		51PC5K2 51PC5K3 51PC5K9 51PC5KN	51PC5K2LB 51PC5K3LB 51PC5K9LB 51PC5KNLB	1
	Operators with LED Lamp ²⁾ 120V with 6V BA9 type LED	Red Green Amber Less lens		51PE5G2 51PE5G3 51PE5G9 —	51PE5G2LB 51PE5G3LB 51PE5G9LB —	1
	240V with 6V BA9 type LED	Red Green Amber Less lens		51PE5H2 51PE5H3 51PE5H9 —	51PE5H2LB 51PE5H3LB 51PE5H9LB —	1
	480V with 6V BA9 type LED	Red Green Amber Less lens		51PE5J2 51PE5J3 51PE5J9 —	51PE5J3LB 51PE5J3LB 51PE5J9LB —	1
	600V with 6V BA9 type LED	Red Green Amber Less lens		51PE5K2 51PE5K3 51PE5K9 —	51PE5K2LB 51PE5K3LB 51PE5K9LB —	1
	Indicator light with glass lens - Resistor type AC/DC*					
	120V with 24V 757 type lamp	Red Green Amber Less lens		51PC5M2 51PC5M3 51PC5M9 51PC5MN	51PC5M2LB 51PC5M3LB 51PC5M9LB 51PC5MNLB	1
	120V with 24V BA9 type LED lamp ²⁾	Red Green Amber		51PE5M2 51PE5M3 51PE5M9	51PE5M2LB 51PE5M3LB 51PE5M9LB	1

1) For other colors not listed, order operator less lens and separate lens from page 10/127.

2) LED color must match lens color.

3) All illuminated devices come with std. Touch-safe shield per UL stds.

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Push to test complete units

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Selection and ordering data

	Version	Color of operator	Contacts	Short bushing Order No.	Long bushing Order No.	Pack
						Unit
Push to test full voltage 	Push to test/Illuminated pushbutton with glass lens - Full voltage type AC/DC ^{1) 3)} Operators with Incandescent Lamp 6V with 755 type lamp	Red	1NO + 1NC	51PC6B2A	51PC6B2ALB	1
		Green	1NO + 1NC	51PC6B3A	51PC6B3ALB	1
		Amber	1NO + 1NC	51PC6B9A	51PC6B9ALB	1
		Less lens	1NO + 1NC	51PC6BNA	51PC6BNALB	1
		24V with 757 type lamp	Red	51PC6D2A	51PC6D2ALB	1
	Operators with LED Lamp ²⁾ 6-8V with BA9 type LED	Amber	1NO + 1NC	51PC6D3A	51PC6D3ALB	1
		Green	1NO + 1NC	51PC6D9A	51PC6D9ALB	1
		Less lens	1NO + 1NC	51PC6DNA	51PC6DNALB	1
		24V with BA9 type LED	Red	51PE6D2A	51PE6D2ALB	1
		Green	1NO + 1NC	51PE6D3A	51PE6D3ALB	1
		Amber	1NO + 1NC	51PE6D9A	51PE6D9ALB	1
Push to test transformer type 	Push to test/Illuminated pushbutton with glass lens - Transformer type (50/60 Hz) ^{1) 3)} Operators with Incandescent Lamp 120V with 6V 755 type lamp	Red	1NO + 1NC	51PC6G2A	51PC6G2ALB	1
		Green	1NO + 1NC	51PC6G3A	51PC6G3ALB	1
		Amber	1NO + 1NC	51PC6G9A	51PC6G9ALB	1
		Less lens	1NO + 1NC	51PC6GNA	51PC6GNALB	1
		240V with 6V 755 type lamp	Red	51PC6H2A	51PC6H2ALB	1
	Operators with LED Lamp ²⁾ 120V with 6V BA9 type LED	Green	1NO + 1NC	51PC6H3A	51PC6H3ALB	1
		Amber	1NO + 1NC	51PC6H9A	51PC6H9ALB	1
		Less lens	1NO + 1NC	51PC6HNA	51PC6HNALB	1
		480V with 6V 755 type lamp	Red	51PC6J2A	51PC6J2ALB	1
		Green	1NO + 1NC	51PC6J3A	51PC6J3ALB	1
		Amber	1NO + 1NC	51PC6J9A	51PC6J9ALB	1
		Less lens	1NO + 1NC	51PC6JNA	51PC6JNALB	1
	600V with 6V 755 type lamp	Red	1NO + 1NC	51PC6K2A	51PC6K2ALB	1
		Green	1NO + 1NC	51PC6K3A	51PC6K3ALB	1
		Amber	1NO + 1NC	51PC6K9A	51PC6K9ALB	1
		Less lens	1NO + 1NC	51PC6KNA	51PC6KNALB	1
		Operators with LED Lamp ²⁾ 120V with 6V BA9 type LED	Red	51PE6G2A	51PE6G2ALB	1
	240V with 6V BA9 type LED	Green	1NO + 1NC	51PE6G3A	51PE6G3ALB	1
		Amber	1NO + 1NC	51PE6G9A	51PE6G9ALB	1
		Red	1NO + 1NC	51PE6H2A	51PE6H2ALB	1
		Green	1NO + 1NC	51PE6H3A	51PE6H3ALB	1
		Amber	1NO + 1NC	51PE6H9A	51PE6H9ALB	1
	480V with 6V BA9 type LED	Red	1NO + 1NC	51PE6J2A	51PE6J2ALB	1
		Green	1NO + 1NC	51PE6J3A	51PE6J3ALB	1
		Amber	1NO + 1NC	51PE6J9A	51PE6J9ALB	1
		Red	1NO + 1NC	51PE6K2A	51PE6K2ALB	1
		Green	1NO + 1NC	51PE6K3A	51PE6K3ALB	1
		Amber	1NO + 1NC	51PE6K9A	51PE6K9ALB	1

Overload reset operators with reset legend plate

	Version	Color	Legend Inscription	Order No.
 	Single unit 7/8" diameter reset pad, 10" shaft can be cut to length.	Red	Reset	51AAS
	Multi unit For use with multi push operation requirements.	Red	Reset	51AAM

1) For other colors not listed, order operator less lens and separate lens from page 10/127.

2) LED color must match lens color.

3) All illuminated devices come with std. Touch-safe shield per UL stds.

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Selector switch operators

Selection and ordering data

	Version	Lever type	Color of insert	Cam Code ^{1) 2)}	Short bushing Order No.	Long bushing Order No.	Pack Unit
	Selector switches with 2 switching positions Maintained operation	Short lever, non-Illuminated	White	A	51SA2AA	51SA2AALB	1
		Long lever, non-Illuminated	White	A	51SB2AA	51SB2AALB	
	Spring return from right operation	Short lever, non-Illuminated	White	A	51SA2AC	51SA2ACLB	1
		Long lever, non-Illuminated	White	A	51SB2AC	51SB2ACLB	
	Selector switches with 3 switching positions Maintained operation	Short lever, non-Illuminated	White	B	51SA2BA	51SA2BALB	1
		Long lever, non-Illuminated	White	B	51SB2BA	51SB2BALB	
		Short lever, non-Illuminated	White	C	51SA2CA	51SA2CALB	
		Long lever, non-Illuminated	White	C	51SB2CA	51SB2CALB	
		Short lever, non-Illuminated	White	D	51SA2DA	51SA2DALB	
		Long lever, non-Illuminated	White	D	51SB2DA	51SB2DALB	
		Short lever, non-Illuminated	White	E	51SA2EA	51SA2EALB	
		Long lever, non-Illuminated	White	E	51SB2EA	51SB2EALB	
	Spring return from right operation	Short lever, non-Illuminated	White	G	51SA2GA	51SA2GALB	1
		Long lever, non-Illuminated	White	G	51SB2GA	51SB2GALB	
		Short lever, non-Illuminated	White	B	51SA2BC	51SA2BCLB	
		Long lever, non-Illuminated	White	B	51SB2BC	51SB2BCLB	
		Short lever, non-Illuminated	White	C	51SA2CC	51SA2CCLB	
		Long lever, non-Illuminated	White	C	51SB2CC	51SB2CCLB	
		Short lever, non-Illuminated	White	D	51SA2DC	51SA2DCLB	
		Long lever, non-Illuminated	White	D	51SB2DC	51SB2DCLB	
	Spring return from left operation	Short lever, non-Illuminated	White	E	51SA2EC	51SA2ECLB	1
		Long lever, non-Illuminated	White	E	51SB2EC	51SB2ECLB	
		Short lever, non-Illuminated	White	G	51SA2GC	51SA2GCLB	
		Long lever, non-Illuminated	White	G	51SB2GC	51SB2GCLB	
		Short lever, non-Illuminated	White	B	51SA2BB	51SA2BBLB	
		Long lever, non-Illuminated	White	B	51SB2BB	51SB2BBLB	
		Short lever, non-Illuminated	White	C	51SA2CB	51SA2CBLB	
		Long lever, non-Illuminated	White	C	51SB2CB	51SB2CBLB	
	Spring return from left and right operation	Short lever, non-Illuminated	White	D	51SA2DB	51SA2DBLB	1
		Long lever, non-Illuminated	White	D	51SB2DB	51SB2DBLB	
		Short lever, non-Illuminated	White	E	51SA2EB	51SA2EBLB	
		Long lever, non-Illuminated	White	E	51SB2EB	51SB2EBLB	
		Short lever, non-Illuminated	White	G	51SA2GB	51SA2GBLB	
		Long lever, non-Illuminated	White	G	51SB2GB	51SB2GBLB	
		Short lever, non-Illuminated	White	B	51SA2BD	51SA2BDLB	
		Long lever, non-Illuminated	White	B	51SB2BD	51SB2BDLB	
		Short lever, non-Illuminated	White	C	51SA2CD	51SA2CDLB	1
		Long lever, non-Illuminated	White	C	51SB2CD	51SB2CDLB	
		Short lever, non-Illuminated	White	D	51SA2DD	51SA2DDLb	
		Long lever, non-Illuminated	White	D	51SB2DD	51SB2DDLb	
		Short lever, non-Illuminated	White	E	51SA2ED	51SA2EDLB	
		Long lever, non-Illuminated	White	E	51SB2ED	51SB2EDLB	
		Short lever, non-Illuminated	White	G	51SA2GD	51SA2GDLb	
		Long lever, non-Illuminated	White	G	51SB2GD	51SB2GDLb	

1) C CAM limited to 4 single or double pole blocks on spring return operators.

2) For contact operation, see CAM selection chart on [page 10/138](#).

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Selector switch operators

Selection and ordering data



Version	Key removal position	Lock number	CAM Code ^{1) 2)}	Short bushing Order No.	Long bushing Order No.	Pack Unit
Key-operated selector switches with 2 switching positions	Both	550CH	A	51SA6AE	51SA6AELB	1
	Left	550CH	A	51SA6AF	51SA6AFLB	
Maintained operation						
Spring return from right operation	Left	550CH	A	51SA6AC	51SA6ACLB	1
Key-operated selector switches with 3 switching positions	All	550CH	B	51SA6BE	51SA6BELB	1
			C	51SA6CE	51SA6CELB	
D			51SA6DE	51SA6DELB		
E			51SA6EE	51SA6EELB		
G			51SA6GE	51SA6GELB		
Maintained operation	Left	550CH	B	51SA6BF	51SA6BFLB	1
			C	51SA6CF	51SA6CFLB	
			D	51SA6DF	51SA6DFLB	
			E	51SA6EF	51SA6EFLB	
			G	51SA6GF	51SA6GFLB	
	Right	550CH	B	51SA6BG	51SA6BGLB	1
			C	51SA6CG	51SA6CGLB	
			D	51SA6DG	51SA6DGLB	
			E	51SA6EG	51SA6EGLB	
			G	51SA6GG	51SA6GGLB	
Center	550CH	B	51SA6BH	51SA6BHLB	1	
		C	51SA6CH	51SA6CHLB		
		D	51SA6DH	51SA6DHLB		
		E	51SA6EH	51SA6EHLB		
		G	51SA6GH	51SA6GHLB		
Left and Center	550CH	B	51SA6BK	51SA6BKLB	1	
		C	51SA6CK	51SA6CKLB		
		D	51SA6DK	51SA6DKLB		
		E	51SA6EK	51SA6EKLb		
		G	51SA6GK	51SA6GKLB		
Spring return from right operation	Center	550CH	B	51SA6BU	51SA6BULB	1
C	51SA6CU	51SA6CULB				
D	51SA6DU	51SA6DULB				
E	51SA6EU	51SA6EULB				
G	51SA6GU	51SA6GULB				
Spring return from left operation	Center	550CH	B	51SA6BT	51SA6BTLB	1
			C	51SA6CT	51SA6CTLB	
			D	51SA6DT	51SA6DTLB	
			E	51SA6ET	51SA6ETLB	
			G	51SA6GT	51SA6GTLB	
Spring return from left and right operation	Center	550CH	B	51SA6BV	51SA6BVLB	1
			C	51SA6CV	51SA6CVLB	
			D	51SA6DV	51SA6DVLB	
			E	51SA6EV	51SA6EVLB	
			G	51SA6GV	51SA6GVLB	
To order 1 to 25 special locks for keyed selector switches simply replace the 6 in the 5th digit of the catalog number with a 5 when entering your order. (Ordering Example: 52SC6AE is changed to 52SC5AE and all locks - up to				5	5	

To order 1 to 25 special locks for keyed selector switches simply replace the 6 in the 5th digit of the catalog number with a 5 when entering your order. (Ordering Example: 52SC6AE is changed to 52SC5AE and all locks - up to

5

5

To order special locks for keyed selector switches, append corresponding 'X' suffix to part number

Ordering example:
51SA6AEX298

#549CH	X639	1
#548CH	X640	1
#547CH	X641	1
#501CH	X642	1
#506CH	X643	1

1)C CAM limited to 4 single or double pole blocks on spring return operators.

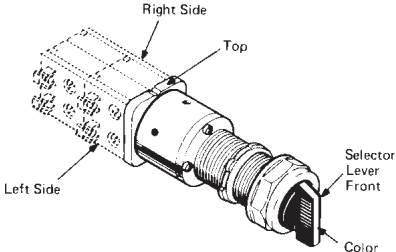
2)For contact operation, see CAM selection chart on [page 10/138](#).

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Cam selection

Selection and ordering data

Design	Ordering Information
	- Contact blocks are ordered separately, see page 10/141. - Determine which table to use based upon the type of selector (non-illuminated & keyed on top, illuminated on bottom). - Find the correct number of selector positions (2, 3 or 4 positions). - Select the contact operation required for each selector position. X indicates the contacts are closed, while O indicates the contacts are open. (For the selector pushbutton, N=normal and D=depressed). Contact block must be assembled in position shown for each circuit application. - Identify the CAM letter required for the chosen contact operation (only 1 CAM can be used per selector switch or selector pushbutton). - Contact blocks must be assembled in the position shown for each circuit application. The mounting position is viewed from the front of the device. Ordering CAMs D, E or G - CAM D, E or G may be ordered at the same price by changing the 6th character of the selector catalog number. Example: Selector with D cam 51SA2DA. Size Requirements - C CAM on spring return selectors is limited to 4 contact blocks. Standard push buttons accept 4 contact blocks on each side, for a maximum of 8 contact blocks. - Selector operators in enclosures are limited to depth of 1 contact block. (2 blocks wide).

Non-illuminated and keyed selector switches (viewed from front)

2 Selector Positions			Contact Blocks	CAM	Mounting	
Left		Right			Left	Right
X		O	52BAJ (NC)	A	L	or R
O		X	52BAK (NO)	A	L	or R

3 Selector Positions			Contact Blocks	CAM	Mounting	
Left	Center	Right			Left	Right
X	O	O	52BAK (NO)	B		R
O	O	X	52BAK (NO)	B	L	
X	X	O	52BAJ (NC)	B	L	
O	X	X	52BAJ (NC)	B	R	
O	O	X	52BAK (NO)	C	L	or R
X	O	O	52BAJ (NC)	C	L	or R
O	O	X	52BAK (NO)	D	L	or R
O	X	O	52BAJ (NC)	D	L	or R
X	O	O	52BAK (NO)	E	L	or R
O	X	O	52BAJ (NC)	E	L	or R
X	O	O	52BAJ (NC)	G	L	
O	X	O	52BAJ (NC)	G		R
O	O	X	52BAK (NO)	G	L	or R

Illuminated selector switches

2 Selector Positions			Contact Blocks	CAM	Mounting	
Left		Right			Left	Right
X		O	52BAJ (NC)	A	L	
O		X	52BAK (NO)	A	L	

1) Wired in parallel.

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Control stations

1
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10

Selection and ordering data

	Operator Identification ¹⁾	Degree of operator	Contacts/voltage	Number of command points	Order No.	Pack
						Unit
	A = Momentary flush pushbutton black, label "START"	NEMA 7/9	1NO - 1NC	1	51C101H	1
	A = Momentary raised pushbutton red, label "STOP"	NEMA 7/9	1NO - 1NC	1	51C103H	1
	A = Momentary 1 5/8" mushroom head red label "STOP"	NEMA 7/9	1NO - 1NC	1	51C104H	1
	A = Momentary dual pushbutton red label "START, STOP"	NEMA 7/9	1NO - 1NC	1	51C105H	1
	A = 2 position selector switch label "Off-On"	NEMA 7/9	1NO - 1NC	1	51C159H	1
	A = 3 position selector switch label "HAND-OFF-AUTO"	NEMA 7/9	1NO - 1NC	1	51C156H	1
	A = Indicator light, green, 120 V	NEMA 7/9		1	51C131H	1
	A = Indicator light, red, 120 V	NEMA 7/9		1	51C135H	1
	B = Momentary flush pushbutton black, label "START"	NEMA 7/9	1NO - 1NC 1NO - 1NC	2	51C201H	1
	A = Momentary raised pushbutton red, label "STOP"					
	B = Momentary flush pushbutton black, label "FORWARD"	NEMA 7/9	1NO - 1NC 1NO - 1NC	2	51C204H	1
	A = Momentary flush pushbutton red, label "REV"					
	B = Momentary flush pushbutton black, label "START"	NEMA 7/9	1NO - 1NC 1NO - 1NC	2	51C202H	1
	A = Momentary 1 5/8" mushroom head pushbutton red, label "STOP"					
	B = Indicator light, red, 120 V	NEMA 7/9	1NO - 1NC 1NO - 1NC	2	51C230H	1
	A = Indicator light, green, 120 V					
	C = Momentary flush pushbutton black, label "FORWARD"	NEMA 7/9	1NO - 1NC 1NO - 1NC 1NO - 1NC	3	51C301H	1
	B = Momentary flush pushbutton black, label "REVERSE"					
	A = Momentary raised pushbutton red, label "STOP"					
	C = Momentary flush pushbutton black, label "OPEN"	NEMA 7/9	1NO - 1NC 1NO - 1NC 1NO - 1NC	3	51C303H	1
	B = Momentary flush pushbutton black, label "CLOSE"					
	A = Momentary raised pushbutton red, label "STOP"					
	C = Indicator light, green, 120 V	NEMA 7/9	1NO - 1NC 1NO - 1NC	3	51C307H	1
	B = Momentary flush pushbutton black, label "START"					
	A = Momentary raised pushbutton red, label "STOP"					

Enclosures only²⁾



For field assembly of Type 7 & 9 UL listed and cUL listed control stations. Devices may be installed for either horizontal or vertical mounting using a standard legend. Limited to depth of 1 contact block.

1	51EA1H	1
2	51EA2H	1
3	51EA3H	1

1) All enclosures come standard with one conduit entry on top.
To get two conduit entries, append X-311 to the end of the order number.

2) For legend plates see page 10/177.

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Accessories and spare parts

Selection and ordering data

Version	Suitable for	Conduit size (in.)	Color	Order No.	Pack Unit
	For small 1 5/8" (41.3mm) type, non-illuminated mushroom push-buttons		Black	52RB3D1	1
			Red	52RB3D2	
			Green	52RB3D3	
			Yellow	52RB3D4	
			Blue	52RB3D5	
			Gray	52RB3D6	
			Orange	52RB3D8	
			1 kit of each	52RB3DN	
	For large 2 1/2" (63.5mm) type, non-illuminated mushroom push-buttons		Black	52RB3E1	1
			Red	52RB3E2	
			Green	52RB3E3	
			Yellow	52RB3E4	
			Blue	52RB3E5	
			Gray	52RB3E6	
			Orange	52RB3E8	
			1 kit of each	52RB3EN	
	Replacement lens for pilot lights Glass lens		Red	51RC4G2	1
			Green	51RC4G3	
			Blue	51RC4G5	
			Amber	51RC4G9	
			Clear	51RC4GA	
	Replacement lens for push to test/illuminated pushbuttons Glass lens		Red	51RC5G2	1
			Green	51RC5G3	
			Amber	51RC5G9	
	Guards Prevents accidental operation	Non-illuminated Pushbuttons & Push Pull Operators with Mushroom Head Caps 1 5/8" to 1 3/4" in diameter.	Chrome	51AAGM	1
	Lever inserts Short lever		Red	52RA2A2	1
			Green	52RA2A3	
			Blue	52RA2A4	
			Amber	52RA2A5	
			Gray	52RA2A6	
			Orange	52RA2A8	
			White	52RA2AB	
	Long lever		Red	52RA2B2	1
			Green	52RA2B3	
			Blue	52RA2B4	
			Amber	52RA2B5	
			Gray	52RA2B6	
			Orange	52RA2B8	
			White	52RA2BB	
	Padlock attachment	Only for raised pushbutton operators		51AAL	1
	Breather/drain (Stainless Steel)	Installs in bottom as a drain or in the top as a breather. Suitable for Class 1 groups C & D and for Class 2 groups F & G applications only. Fits 1/2" NPT.		51AADB	1
	Lock nut wrench	All devices		52MAWB	1
	Spare keys	550CH (1 key)		52KEY-550CH	1

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Accessories and spare parts

1
2
3
4
5
6
7
8
9
10

Selection and ordering data

Version	Suitable for	Conduit size (in.)	Color	Order No.	Pack Unit	
	Cast aluminum, UL recognized and CSA certified. Used to reduce existing tapered NPT conduit opening when required.	3/4 - 1/2		51AARBA	1	
		1 - 1/2		51AARCA		
		1 1/2 - 3/4		51AARDB		
		1 1/2 - 1		51AARDC		
		2 1/2- 3/4		51AARFB		
		2 1/2 - 1		51AARFC		
		2 1/2 - 1 1/2		51AARFD		
		2 1/2 - 2		51AARFE		
		3 - 1		51AARGC		
		3 - 1 1/2		51AARGD		
		3 - 2		51AARGE		
		3 - 2 1/2		51AARGF		
Lamps with screw connection, miniature bayonet incandescent lamps						
Flashing, type 267 lamp (replaces 755 lamp)	51, 52	6V		52AABNF	1	
6V Full voltage, transformer type 755 lamp	51, 52	6V		52AABN	1	
12V full voltage, type 756	51, 52	12V		52AACN	1	
24V full voltage, 120/240V resistor push-to-test type 757	51, 52	24V		52AADN	1	
Neon (uses resistors) type B2A (NE-51H)	51, 52	120V		52AAPN	1	
120V, full voltage type 3S6/5	51, 52	120V		52AAENC	1	
	LEDs, Single element	51, 52	6V	Red	52AEB2	1
		51, 52	6V	Green	52AEB3	
		51, 52	6V	Yellow	52AEB4	
		51, 52	6V	White	52AEBB	
		51, 52	6V	Blue	52AEB5	
		51, 52	24V	Red	52AED2	
		51, 52	24V	Green	52AED3	
		51, 52	24V	Yellow	52AED4	
		51, 52	24V	White	52AEDB	
		51, 52	24V	Blue	52AED5	
		51, 52	120V	Red	52AEE2	
		51, 52	120V	Green	52AEE3	
		51, 52	120V	Yellow	52AEE4	
		51, 52	120V	White	52AEEB	
		51, 52	120V	Blue	52AEE5	

Pushbutton Units and Indicator Lights

Class 51, Hazardous Location NEMA Type 7 & 9 Devices

Accessories and spare parts

Selection and ordering data

	Version	Suitable for	Conduit size (in.)	Color	Order No.	Pack Unit
 52BAJ	Touchsafe contact blocks with gold flashing					1
	1 NO				52BAK	
	1 NC				52BAJ ²⁾	
 52BAK	1 NO - 1 NC				52BJK ²⁾	
	1 NO early make	closes before 52BAK			52BAH	
	1 NC late break	opens after 52BAJ			52BAE	
 52BAR	1 NO - 1 NC	Reed switch			52BAR ¹⁾	
		UL listed for class 1 division 2				
		.25A Max, 200V AC, 10 Watt max				
	1 NC extra late break	.5A Max, 200V DC, 10 Watt max			52BAU	

① Hermetically sealed.

② → Positive opening according to IEC 60947-5-1, Appendix K.

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Pushbutton complete units

Features

- Octagonal Mounting Nuts
- Meets Type 1, 3, 3R, 4, 4X, 12, 13 and Automotive Standards
- Heavy Duty Rated NEMA A600/P600 Contacts
-  Positively Driven Contacts
- Positive Indexing Selectors
- Bifurcated Movable Contacts
- Attractive Chrome Plating
- Boots Not Required for Type 4
- UL Listed File # E22655
- CSA Certified File # LR6535
- Touchsafe Terminals

Application

Oil tight pilot controls and accessories are designed to provide long, trouble free service in the most demanding industrial applications. These controls are oil and dust tight and meet Type 3, 4, 4X, 12 and 13 specifications.

Rugged

Industrial control operators are durable one piece castings. Heavy duty plastic buttons resist oils and corrosion. Silver contacts carry heavy duty ratings.

Flexible

Accessories modify standard push buttons, selector switches and pilot lights. Building block construction of contact blocks makes possible many circuitry combinations.

Industrial Appearance

Pilot controls add luster to panels. Chrome plating covers exposed metal parts.

Push Button Operators

The Operator Base consists of a durable, one piece casting equipped with a heavy duty actuator with a stainless steel spring, a neoprene actuator sealing ring to prevent oil and dust from penetrating to the contact blocks, a neoprene gasket to seal operator mounting hole and a chrome plated lock nut.

Mushroom Head Push Button Operators

The Mushroom Head base construction is identical to the push button base. The actuator is molded of high impact material for either a 1 5/8 inch or 2 1/2 inch diameter molded head.

E-STOP Mushroom Head Operators according to EN 60947-5-5 Cat. No. 52BP, 52BR, 52PP, and 52PR, 2 Position, Twist-To-Release & 2 Position, Push Pull Maintained operators provided with red operating heads and 52BJK contact blocks meet the requirements of EN 60947-5-5 for Electrical Emergency Stop Device With Mechanical Latching Function (e-stop).

Contact Blocks

Contact Blocks have double break bifurcated silver contacts, with gold flashing as standard, which improves contact reliability. Contact blocks are heavy duty rated NEMA A600 and suitable for applications down to 5V/1mA solid state outputs. 52BJK offers  Positive Opening Contacts according to IEC 60947-5-1, Appendix K. Molded bodies and pushers resist arcing and tracking. All units have stainless steel springs that resist corrosion and provide strong contact pressure. Captive mounting screws speed panel assembly.

Push Pull Operators

Push Pull Operators combine two or three functions in one unit. The maintained operator has two positions, typically pull to start, push to stop. The momentary operator with three positions provides spring return from both pull and push positions. In addition, a three position push maintained, pull momentary operator is available. The actuator come is 1 3/4 inch or 2 1/2 inch diameter and is available in an illuminated version.

2 Button Maintained Operator

Maintained Push Buttons consist of two push buttons and a latching assembly. When actuated the button remains depressed and is freed only by the release operator to which it is linked. The button assembly adjusts for mounting from a 1 13/16 inch to a 2 5/8 inch center.

Transformer Type Pilot Lights

Transformer Type Pilot Lights are available with a 120, 240, 480 or 600 Volt primary (50/60 Hertz) and a separate secondary winding which supplies reduced voltage to a miniature bayonet base 6 Volt lamp. These units are suitable for applications where vibration is present and long bulb life is desirable.

Full Voltage Type Pilot Lights

Full Voltage Pilot Lights are available for 6, 12, 24 and 120 Volt AC and DC applications.

Electrical Ratings

NEMA AC Ratings 50/60Hz

NEMA A600 10 Continuous Amps

Volts	Make	Break
120	60	6
240	30	3
480	15	1.5
600	12	1.2
VA	7200	720

Ordering Information

- Accessories: [pages 10/166 – 10/169](#)
- Selector Position and Contact Operation: [page 10/164 – 10/165](#).
- Legend Plates: [page 10/177](#).
- Enclosures: [page 10/178](#).
- Technical Specifications: [page 10/179](#).

Resistor Type Pilot Lights

Resistor Type Pilot Lights are available for 240 Volt AC and DC applications. The 240 Volt pilot light is supplied with a 120 Volt lamp and a voltage dropping resistor.

LED Type Pilot Lights

LED's (light emitting diodes) can be used in pilot lights instead of incandescent bulbs because of their long life (up to 10 years), resistance to vibration and ambient sensitivity. Clustered LED options are available for standard pilot lights only. Cluster LED options are not available on Push to test Pilot Lights, Illuminated Pushbuttons, Push-pull, or Twist-to-Release Operators.

Integrated LED Module Type Pilot Lights

The integrated LED module is available for 24, 120, and 240 V. LED modules are vibration resistant and have a long life (up to 10 years). The integrated LED module is available for 24, 120, and 240 V. LED modules are vibration resistant and have a long life (up to 10 yrs.).

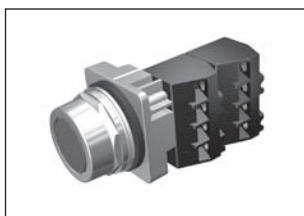
Selector Operators

Selector Operators have positive action indexing. Operators are available with either a short or long lever. The molded black lever is designed to accept a color insert. A white insert is provided as standard. Each operator is equipped with a cam to actuate plungers of contact blocks assembled behind the operator. Two, three and four position operators are available with seven different cams.

Lever color inserts are available in 8 colors.



Indicator Light



Push Button



Selector Switch



Selector Push Button

Push Buttons & Signaling Devices

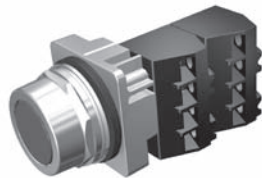
30mm Water, Oil Tight & Corrosion Resistant – Class 52

• Revised •
08/15/14

Push Button

Selection Guid

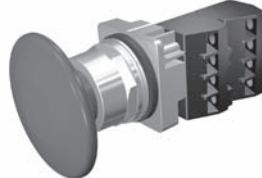
Momentary Push Button - Non-Illuminated



Flush Head



Extended Head



Large Mushroom Head 2 1/2"



Small Mushroom Head 1 3/4"

Part Number	52	a	M b	c	d	e ¹
-------------	----	---	--------	---	---	----------------

a	Code	Finish
	P	Chrome - Command 52
	B	Epoxy Coated - Black Max

b	Code	Type
	M	Momentary Push Button

c	Code	Style / Head Type
		Flush / Extended Cap ²
	8A	Flush
	8B	Extended
		Mushroom Head Metal
	9A	Small Mushroom Head 1 3/4" (44.5mm)
		Mushroom Head Plastic
	9W	Small Mushroom Head 1 3/4" (44.5mm)
	9V	Large Mushroom Head 2 1/2" (63.5mm)

d	Code	Plastic	Metal
	1	Black	—
	2	Red	Red
	3	Green	Green
	4	Yellow	—
	5	Blue	—
	6	Gray	—
	7	All Color Caps	—
	8	Orange	—
	C	—	Chrome

e ¹	Code	Contact Blocks
	A	1 NO + 1 NC
	B	2 NO + 2 NC
	C	3 NO + 3 NC
	D	4 NO + 4 NC
	E	1 NC (LB)
	F	2 NO
	G	2 NC
	H	1NO (EM)
	J	1 NC
	K	1 NO

¹ For operator without contact blocks leave position e blank.

² Products available fall 2014. For current product offer please refer to the 2010 Industrial Control Catalog.

Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Push Buttons

1
2
3
4
5
6
7
8
9
10

Selection Tables

Momentary Push Button - Non-Illuminated

Head Style	Contacts	Color	Finish	
			Chrome	Black Max
Flush	—	Less cap	52PM8	52BM8
		Black	52PM8A1	52BM8A1
		Red	52PM8A2	52BM8A2
		Green	52PM8A3	52BM8A3
		Yellow	52PM8A4	52BM8A4
	1 NO - 1 NC	Black	52PM8A1A	52BM8A1A
		Red	52PM8A2A	52BM8A2A
		Green	52PM8A3A	52BM8A3A
	1 NO	Black	52PM8A1K	52BM8A1K
		Red	52PM8A2K	52BM8A2K
		Green	52PM8A3K	52BM8A3K
	1 NC	Red	52PM8A2J	52BM8A2J
Extended	—	Black	52PM8B1	52BM8B1
		Red	52PM8B2	52BM8B2
		Green	52PM8B3	52BM8B3
	1 NO	Black	52PM8B1K	52BM8B1K
	1 NC	Red	52PM8B2K	52BM8B2K
Mushroom Head Plastic Ø 1 3/4"	—	Less cap	52PM9	52BM9
		Red	52PM9W2	52BM9W2
	1 NO	Green	52PM9W3K	52BM9W3K
	1 NO - 1 NC	Black	52PM9W1A	52BM9W1A
		Red	52PM9W2A	52BM9W2A
	1 NO - 1 NC	Green	52PM9W3A	52BM9W3A
Mushroom Head Plastic Ø 2 1/2"	—	Red	52PM9V2	52BM9V2
	1 NO - 1 NC	Black	52PM9V1A	52BM9V1A
		Red	52PM9V2A	52BM9V2A
		Green	52PM9V3A	52BM9V3A

Readily available items are in **bold**.
This is a small representation of stocked items.

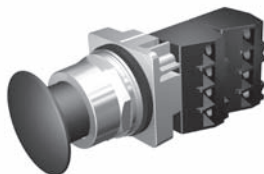
Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Non-Illuminated Push Pull

Selection Guide

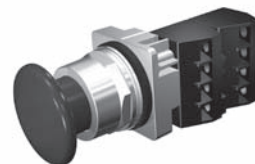
2 & 3 Position Push-Pull Mushroom Head Devices - Non-Illuminated



Mushroom Head Metal Ø 1 3/4"



Mushroom Head Plastic Ø 2 1/2"



Mushroom Head Plastic Ø 1 3/4"

Part Number	52	<u> </u> a	<u>P</u> b	<u> </u> c	<u> </u> d	<u> </u> e	<u> </u> f ³
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a	Code	Finish
	P	Chrome-Command 52
	B	Epoxy Coated-Black Max

b	Code	Type
	P	Push Pull

c	Code	Function
	2	2 positions - maintained ¹
	3	3 positions - momentary in - momentary out
	7	3 positions - maintained in - momentary out

d	Code	Style
	A	Small metal 1-3/4" (44.5 mm)
	W	Small plastic 1-3/4" (44.5 mm)
	V	Large plastic 2-1/2" (63.5 mm)

e	Code	Color
		Plastic Metal
	1	Black —
	2	Red ¹ Red ¹
	3	Green Green
	4	Yellow —
	5	Blue —
	6	Gray —
	8	Orange —
	C	— Chrome
		No Operating Head
	Z	No head

f ³	Code	Contact Blocks
		2 Position
	A	1 NO + 1 NC ¹
	B	2 NO + 2 NC ¹
	C	3 NO + 3 NC ¹
	D	4 NO + 4 NC ¹
	E	1 NC (LB)
	F	2 NO
	G	2 NC ¹
	H	1 NO (EM)
	J	1 NC ¹
	K	1 NO
	Q	1 NO - 1 NC (ELB)
		3 Position
	U	1 NO - 1 NC extra late break ²

¹ EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and positively driven NC contact blocks. Positive opening contacts according to IEC 60947-5-1, Appendix K.

² Blocks cannot be interchanged (stop-start circuit - pull to start, push to stop).

³ For operator without contact blocks leave position f blank.

Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Non-Illuminated Push Pull

Selection Tables

2 & 3 Position Push-Pull Mushroom Head Devices - Non-Illuminated

2 pos - maintained							
Contacts	Color	Metal Ø 1 3/4"		Plastic Ø 1 3/4"		Plastic Ø 2 1/2"	
		Chrome	Black Max	Chrome	Black Max	Chrome	Black Max
—	Black	—	—	52PP2W1	52BP2W1	52PP2V1	2BP2V1
	Red	52PP2A2	52BP2A2	52PP2W2	52BP2W2	52PP2V2	52BP2V2
	Green	52PP2A3	52BP2A3	52PP2W3	52BP2W3	52PP2V3	52BP2V3
	Yellow	—	—	52PP2W4	52BP2W4	52PP2V4	52BP2V4
1 NO - 1 NC	Red	52PP2A2A¹	52BP2A2A¹	52PP2W2A¹	52BP2W2A¹	52PP2V2A¹	52BP2V2A ¹
	Green	52PP2A3A	52BP2A3A	52PP2W3A	52BP2W3A	52PP2V3A	—
	Yellow	—	—	52PP2W4A	52BP2W4A	52BP2V4A	52BP2V4A
	Chrome	52PP2ACA	52BP2ACA	—	—	—	—

3 pos - momentary in - momentary out							
Contacts	Color	Metal Ø 1 3/4"		Plastic Ø 1 3/4"		Plastic Ø 2 1/2"	
		Chrome	Black Max	Chrome	Black Max	Chrome	Black Max
—	Black	—	—	52PP3W1	52BP3W1	52PP3V1	52BP3V1
	Red	52PP3A2	52BP3A2	52PP3W2	52BP3W2	52PP3V2	52BP3V2
	Green	52PP3A3	52BP3A3	52PP3W3	52BP3W3	52PP3V3	2BP3V3
	Chrome	52PP3AC	52BP3AC	—	—	—	—
1 NO - 1 NCELB	Red	52PP3A2U	52BP3A2U	52PP3W2U	52BP3W2U	52PP3V2U	52BP3V2U
	Green	52PP3A3U	52BP3A3U	52PP3W3U	52BP3W3U	52PP3V3U	52BP3V3U

3 pos - maintained in - momentary out							
Contacts	Color	Metal Ø 1 3/4"		Plastic Ø 1 3/4"		Plastic Ø 2 1/2"	
		Chrome	Black Max	Chrome	Black Max	Chrome	Black Max
—	Black	—	—	52PP7W1	52BP7W1	52PP7V1	52BP7V1
	Red	52PP7A2	52BP7A2	52PP7W2	52BP7W2	52PP7V2	52BP7V2
	Green	52PP7A3	52BP7A3	52PP7W3	52BP7W3	52PP7V3	52BP7V3
	Chrome	52PP7AC	52BP7AC	—	—	—	—
1 NO - 1 NCELB	Red	52PP7A2U1	52BP7A2U	52PP7W2U	52BP7W2U	52PP7V2U	52BP7V2U
	Green	52PP7A3U	52BP7A3U	52PP7W3U	52BP7W3U	52PP7V3U	52BP7V3U

Readily available items are in **bold**.

This is a small representation of stocked items.

¹ EMERGENCY-STOP control devices according to IEC 60947-5-5

Push Buttons & Signaling Devices

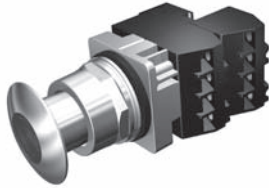
30mm Water, Oil Tight & Corrosion Resistant – Class 52

• Revised •
11/15/14

Illuminated Push Pull & Push Button

Selection Guide

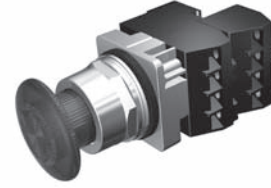
2 & 3 Position Push-Pull Mushroom Head Devices - Illuminated



Mushroom Head Metal Ø 1 3/4"



Mushroom Head Plastic Ø 2 1/2"



Mushroom Head Plastic Ø 1 3/4"

Part Number	52	a	P b	c	d	e	f	g
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a	Code	Finish
	P	Chrome-Command 52
	B	Epoxy Coated-Black Max

b	Code	Type
	P	Push Pull Operator

c	Code	Function
	2	2 positions - maintained ¹
	3	3 positions - momentary in - momentary out ²
	7	3 positions - maintained in - momentary out ²

d	Code	Operation
		Full Voltage ³ (AC/DC)
		Incandescent LED ⁴
	B	6-8V 6V
	C	12-13V —
	D	24-28V 24-28V
	E	120V 120V
	F	— 240V
		Transformer ³
	G	120V AC
	H	240V AC
	J	480V AC
	K	600V AC

e	Code	Style / Color
		Mushroom Head Metal Ø 1 3/4" (44.5mm)
	2	Red ¹
	3	Green
	5	Blue
	9	Amber
	A	Clear
	B	White
		Mushroom Head Plastic Ø 1 3/4" (44.5 mm)
	R	Red ¹
	S	Green
	T	Amber
		Mushroom Head Plastic Ø 2 1/2" (63.5mm)
	D	Red ¹
	E	Green
	F	Amber
		No Head (full voltage & transformer only)
	Z	No head

f	Code	Contact Blocks
		2 Position
	A	1 NO + 1 NC ¹
	B	2 NO - 2 NC ¹
	F	2 NO
	G	2 NC ¹
	J	1 NC ¹
	K	1 NO
	Q	1 NO - 1 NC (ELB)
		3 Position
	U	1 NO - 1 NC extra late break ²

g	Code	Bulb Type
	Blank	Incandescent
	B	LED
	Y	Super-Bright LED ⁵

¹ EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and positively driven NC contact blocks.

Positive opening contacts according to IEC 60947-5-1, Appendix K,

² Blocks cannot be interchanged (stop-start circuit - pull to start, push to stop).

³ Default bulb type is incandescent. For LED options, append field g. LED option not available on units sold "no head".

⁴ LED voltages apply to table g option code B and Y.

6V and 120V are currently AC only. Replaced by AC/DC rated versions end of 2014.

⁵ Not available in 240V.

Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Illuminated Push Pull

Selection Tables

					Operator Type			
					2 pos - maintained			
					Metal Ø 1 3/4"		Plastic Ø 1 3/4"	
Type	Lamp Type	Voltage	Color	Contacts	Chrome	Black Max	Chrome	Black Max
Full Voltage (AC/DC)	LED	24V	Red	1 NO - 1 NC	52PP2D2AB¹	52BP2D2AB¹	52PP2DRAB¹	52BP2DRAB ¹
			Green	1 NO - 1 NC	52PP2D3AB	52BP2D3AB	52PP2DSAB	52BP2DSAB
	Incandescent	24V	Red	1 NO - 1 NC	52PP2D2A¹	52BP2D2A ¹	52PP2DRA¹	52BP2DRA ¹
			Green	1 NO - 1 NC	52PP2D3A	52BP2D3A	52PP2DSA	52BP2DSA
		120V	Red	1 NO - 1 NC	52PP2E2A ¹	52BP2E2A ¹	52PP2ERA ¹	52BP2ERA ¹
			—	—	52PP2E2	52BP2E2	52PP2ER	52BP2ER
Transformer (AC)	LED	120V	Red	1 NO - 1 NC	52PP2G2AB¹	52BP2G2AB ¹	52PP2GRAB ¹	52BP2GRAB ¹
			Green	1 NO - 1 NC	52PP2G3AB	52BP2G3AB	52PP2GSAB	52BP2GSAB
	Incandescent	120V	Red	1 NO - 1 NC	52PP2G2A¹	52BP2G2A ¹	52PP2GRA¹	52BP2GRA ¹
			Green	1 NO - 1 NC	52PP2G3A	52BP2G3A	52PP2GSA	52BP2GSA

					Operator Type				
					3 pos - momentary in - momentary out				
					Metal Ø 1 3/4"		Plastic Ø 1 3/4"		
Type	Lamp Type	Voltage	Color	Contacts	Chrome	Black Max	Chrome	Black Max	
Full Voltage (AC/DC)	LED	24V	Green	1 NO - 1 NCELB	52PP3D3UB	52BP3D3UB	52PP3DRUB	52BP3DRUB	
			Green	1 NO - 1 NCELB	52PP3D3U	52BP3D3U	52PP3DSU	52BP3DSU	
	Incandescent	24V	Red	1 NO - 1 NCELB	52PP3D2U	52BP3D2U	52PP3DRU	52BP3DRU	
			—	—	52PP3E2	52BP3E2	52PP3ER	52BP3ER	
	Transformer (AC)	LED	120V	Red	1 NO - 1 NCELB	52PP3G2UB	52BP3G2UB	52PP3GRUB	52BP3GRUB
				Green	1 NO - 1 NCELB	52PP3G3UB	52BP3G3UB	52PP3GSUB	52BP3GSUB
Incandescent		120V	Red	1 NO - 1 NCELB	52PP3G2U	52BP3G2U	52PP3GRU	52BP3GRU	
			Green	1 NO - 1 NCELB	52PP3G3U	52BP3G3U	52PP3GRU	52BP3GRU	

					Operator Type				
					3 pos - maintained in - momentary out				
					Metal Ø 1 3/4"		Plastic Ø 1 3/4"		
Type	Lamp Type	Voltage	Color	Contacts	Chrome	Black Max	Chrome	Black Max	
Full Voltage (AC/DC)	LED	24V	Green	1 NO - 1 NCELB	52PP7D3UB	52BP7D3UB	52PP7DSUB	52BP7DSUB	
			Green	1 NO - 1 NCELB	52PP7D3U	52BP7D3U	52PP7DSU	52BP7DSU	
	Incandescent	24V	Red	1 NO - 1 NCELB	52PP7D2U	52BP7D2U	52PP7DRU	52BP7DRU	
			Red	—	52PP7E2	52BP7E2	52PP7ER	52BP7ER	
	Transformer (AC)	LED	120V	Red	1 NO - 1 NCELB	52PP7G2UB	52BP7G2UB	52PP7GRUB	52BP7GRUB
				Green	1 NO - 1 NCELB	52PP7G3UB	52BP7G3UB	52PP7GSUB	52BP7GSUB
Incandescent		120V	Red	1 NO - 1 NCELB	52PP7G2U	52BP7G2U	52PP7GRU	52BP7GRU	
			Green	1 NO - 1 NCELB	52PP7G3U	52BP7G3U	52PP7GRU	52BP7GRU	

Readily available items are in **bold**.
This is a small representation of stocked items.

¹ EMERGENCY-STOP control devices according to IEC 60947-5-5

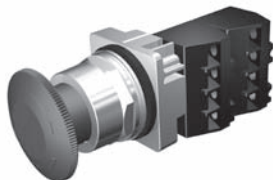
Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Non-Illuminated Twist-to-Release

Selection Guide

2 Position Twist-to-Release Devices Mushroom Head - Non-Illuminated



Plastic 1 3/4" Mushroom Head - Chrome



Plastic 1 3/4" Mushroom Head - Black Max

Part Number	52	<u>a</u>	<u>R</u> b	<u>8</u> c	<u>W</u> d	<u>e</u>	<u>f²</u>
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Finish	Function	Style	Color	Contacts	Part Number
Chrome	2 Position Twist-to-Release	Plastic 1 3/4" Mushroom Head	Red	1 NO - 1 NC	52PR8W2A
Black Max	2 Position Twist-to-Release	Plastic 1 3/4" Mushroom Head	Red	1 NO - 1 NC	52BR8W2A
Chrome	2 Position Twist-to-Release	Plastic 1 3/4" Mushroom Head	Red	None	52PR8W2

Readily available items are in **bold**.

This is a small representation of stocked items.

a	Code	Finish
	P	Chrome-Command 52
	B	Epoxy Coated-Black Max

b	Code	Function
	R	2 Position Twist-to-Release, Maintained ¹

c	Code	Style
	8	Plastic 1 3/4" Mushroom Head

d	Code	Lamp Type
	W	Non-Illuminated

e	Code	Color
	2	Red ¹
	3	Green
	4	Yellow
	Z	No head

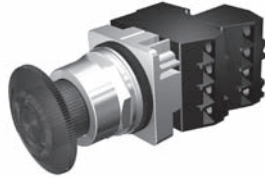
f ²	Code	Contact Blocks
	A	1 NO + 1 NC ¹
	B	2 NO + 2 NC ¹
	C	3 NO + 3 NC ¹
	D	4 NO + 4 NC ¹
	E	1 NC (LB)
	F	2 NO
	G	2NC ¹
	H	1NO (EM)
	J	1 NC ¹
	K	1 NO

¹ EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and positively driven NC contact blocks. Positive opening contacts according to IEC 60947-5-1, Appendix K.

² For operator without contact blocks leave position f blank.

Selection Guide

2 Position Twist-to-Release Mushroom Head Devices - Illuminated



Plastic 1 3/4" Mushroom Head - Chrome



Plastic 1 3/4" Mushroom Head - Black Max

Part Number	52	a	R	8	d	e	f	g
			b	c				

Finish	Style	Voltage	Bulb Type	Color	Contacts	Part Number
Chrome	Plastic 1 3/4" Mushroom Head	24V	LED	Red	1 NO - 1 NC	52PR8DRAB
Chrome	Plastic 1 3/4" Mushroom Head	120V	Incandescent	Red	1 NO - 1 NC	52PR8ERA
Chrome	Plastic 1 3/4" Mushroom Head	120V	LED	Red	1 NO - 1 NC	52PR8GRAB

Readily available items are in **bold**.
This is a small representation of stocked items.

a	Code	Finish
	P	Chrome-Command 52
	B	Epoxy Coated-Black Max

b	Code	Function
	R	2 Position Twist-to-Release, Maintained

c	Code	Style
	8	Plastic 1 3/4" Mushroom Head

d	Code	Operation
		Full Voltage ² (AC/DC)
		Incandescent LED ³
	B	6-8V 6V
	C	12-13V —
	D	24-28V 24-28V
	E	120V 120V
	F	— 240V
		Transformer ²
	G	120V AC
	H	240V AC
	J	480V AC
	K	600V AC

e	Code	Color
	R	Red ¹
	S	Green
	T	Amber
	Z	No head

f	Code	Contact Blocks
	A	1 NO + 1 NC ¹
	B	2 NO + 2 NC ¹
	C	3 NO + 3 NC ¹
	D	4 NO + 4 NC ¹
	E	1 NC (LB)
	F	2 NO
	G	2NC ¹
	H	1NO (EM)
	J	1 NC ¹
	K	1 NO

g	Code	Bulb Type
	Blank	Incandescent
	B	LED
	Y	Super-Bright LED ⁴

1 EMERGENCY-STOP control devices according to IEC 60947-5-5 when provided with red operating head and positively driven NC contact blocks. Positive opening contacts according to IEC 60947-5-1, Appendix K, Molded bodies.

2 Default bulb type is incandescent. For LED options, append field g.
LED option not available on units sold "no head."

3 LED voltages apply to table g option code B and Y.
6V and 120V are currently AC only. Replaced by AC/DC rated versions end of 2014.

4 Not available in 240V.

Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

• Revised •
11/15/14

Indicator Light

Selection Guide

Indicator Light



Plastic Lens



Glass Lens

Part Number	52	<u> </u> a	<u> </u> L b	<u> </u> c	<u> </u> d	<u> </u> e	<u> </u> f
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a	Code	Finish
	P	Chrome-Command 52
	B	Epoxy Coated-Black Max

b	Code	Type
	L	Indicator Light

c	Code	Style
	4	Plastic Lens
	5	Glass Lens

d	Code	Operation	
		Full Voltage ¹ (AC/DC)	
		Incandescent	LED ²
	B	6-8V	6V
	C	12-13V	—
	D	24-28V	24-28V
	E	120V	120V
	F	—	240V
		Transformer ¹	
	G	120V AC	
	H	240V AC	
	J	480V AC	
	K	600V AC	

e	Code	Color
	2	Red
	3	Green
	5	Blue
	7	All Colors
	9	Amber
	A	Clear
	B	White
	N	No Lens

f	Code	Bulb Type
	Blank	Incandescent
	XB	LED
	XY	Super-Bright LED ³

¹ Default bulb type is incandescent. For LED options, append field f.
LED option not available on units sold "No Lens".

² LED voltages apply to table f option code XB and XY.
6V, 24V (Super Bright only) and 120V are currently AC only. Replaced by AC/DC rated versions end of 2014.

³ Not available in 240V.

Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Indicator Lights

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Selection Tables

Indicator Light

Type	Lamp Type	Voltage	Color	Plastic Lens	
				Chrome	Black Max
Full Voltage (AC/DC)	LED	24V	Red	52PL4D2XB	52BL4D2XB
			Green	52PL4D3XB	52BL4D3XB
			Blue	52PL4D5XB	52BL4D5XB
			Amber	52PL4D9XB	52BL4D9XB
			White	52PL4DBXB	52BL4DBXB
		120V	Red	52PL4E2XB	52BL4E2XB
			Green	52PL4E3XB	52BL4E3XB
			Amber	52PL4E9XB	52BL4E9XB
			Clear	52PL4EAXB	52BL4EAXB
			White	52PL4EBXB	52BL4EBXB
	Incandescent	24V	Red	52PL4D2	52BL4D2
			Green	52PL4D3	52BL4D3
			Blue	52PL4D5	52BL4D5
			Amber	52PL4D9	52BL4D9
			White	52PL4DB	52BL4DB
			No Lens	52PL4DN	52BL4DN
		120V	Red	52PL4E2	52BL4E2
			Green	52PL4E3	52BL4E3
			Amber	52PL4E9	52BL4E9
			No Lens	52PL4EN	52BL4EN
Transformer (AC)	LED	120V	Red	52PL4G2XB	52BL4G2XB
			Green	52PL4G3XB	52BL4G3XB
			Amber	52PL4G9XB	52BL4G9XB
			White	52PL4GBXB	52BL4GBXB
		480V	Red	52PL4J2XB	52BL4J2XB
			Green	52PL4J3XB	52BL4J3XB
			White	52PL4JBXB	52BL4JBXB
	Incandescent	120V	Red	52PL4G2	52BL4G2
			Green	52PL4G3	52BL4G3
			Amber	52PL4G9	52BL4G9
			White	52PL4GB	52BL4GB
			No Lens	52PL4GN	52BL4GN
		240V	Red	52PL4H2	52BL4H2
			Green	52PL4H3	52BL4H3
		480V	Red	52PL4J2	52BL4J2
			Green	52PL4J3	52BL4J3
			Amber	52PL4J9	52BL4J9

Readily available items are in **bold**.
This is a small representation of stocked items.

Push Buttons & Signaling Devices

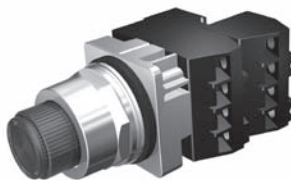
30mm Water, Oil Tight & Corrosion Resistant – Class 52

• Revised •
11/15/14

Illuminated Push Button & Push-to-Test

Selection Guide

Push Button & Push-to-Test - Illuminated



Extended Lens



Flush Lens

Part Number	52	a	T	c	d	e	f	g
-------------	----	---	---	---	---	---	---	---

a	Code	Finish
	P	Chrome-Command 52
	B	Epoxy Coated-Black Max

b	Code	Function
	T	Illuminated Push Button / Push-to-Test ¹

c	Code	Style
	6	Extended Lens
	8	Flush Lens ²

d	Code	Operation
		Full Voltage ³ (AC/DC)
		Incandescent LED ⁴
	B	6-8V 6V
	C	12-13V —
	D	24-28V 24-28V
	E	120V 120V
	F	— 240V
		Transformer ³
	G	120V AC
	H	240V AC
	J	480V AC
	K	600V AC

e	Code	Color
	2	Red
	3	Green
	5	Blue
	7	All Colors
	9	Amber
	A	Clear
	B	White
	N	No Lens

f	Code	Contact Blocks
	A	1 NO - 1 NC
	B	2 NO + 2 NC
	C	3 NO + 3 NC
	D	4 NO + 4 NC
	E	1 NC (LB)
	F	2 NO
	G	2 NC
	H	1NO (EM)
	J	1 NC
	K	1 NO

g	Code	Bulb Type
	Blank	Incandescent
	B	LED
	Y	Super-Bright LED ⁵

1 For push-to-test functionality, wire according to wiring diagram below.

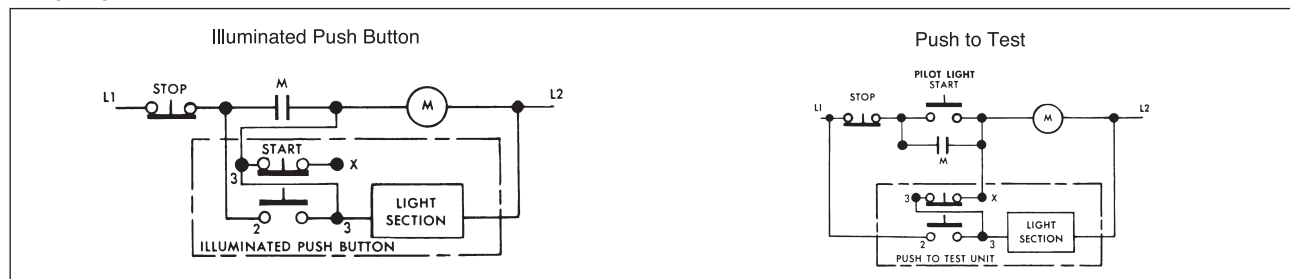
2 Products available fall 2014.

3 Default bulb type is incandescent. For LED options, append field g.
LED option not available on units sold "No Lens".

4 LED voltages apply to table g option code B and Y.
6V and 120V are currently AC only. Replaced by AC/DC rated versions end of 2014.

5 Not available in 240V.

Wiring Diagrams



Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Illuminated Push Buttons & Push-to-Test

Selection Tables

Push Button & Push-to-Test - Illuminated

Type	Lamp Type	Voltage	Color	Contacts	Extended Lens	
					Chrome	Black Max
Full Voltage (AC/DC)	LED	24V	Red	1 NO - 1 NC	52PT6D2AB	52BT6D2AB
			Green	1 NO - 1 NC	52PT6D3AB	52BT6D3AB
			Blue	1 NO - 1 NC	52PT6D5AB	52BT6D5AB
			Amber	1 NO - 1 NC	52PT6D9AB	52BT6D9AB
			White	1 NO - 1 NC	52PT6DBAB	52BT6DBAB
	Incandescent	24V	Red	1 NO - 1 NC	52PT6E2AB	52BT6E2AB
			Green	1 NO - 1 NC	52PT6E3AB	52BT6E3AB
			Blue	1 NO - 1 NC	52PT6D2A	52BT6D2A
			Green	1 NO - 1 NC	52PT6D3A	52BT6D3A
			Blue	1 NO - 1 NC	52PT6D5A	52BT6D5A
Transformer (AC)	LED	120V	Red	1 NO - 1 NC	52PT6G2AB	52BT6G2AB
			Green	1 NO - 1 NC	52PT6G3AB	52BT6G3AB
			Amber	1 NO - 1 NC	52PT6G9AB	52BT6G9AB
			White	1 NO - 1 NC	52PT6GBAB	52BT6GBAB
			Red	1 NO - 1 NC	52PT6H2AB	52BT6H2AB
	Incandescent	240V	Green	1 NO - 1 NC	52PT6H3AB	52BT6H3AB
			Red	1 NO - 1 NC	52PT6G2A	52BT6G2A
			Green	1 NO - 1 NC	52PT6G3A	52BT6G3A
			Amber	1 NO - 1 NC	52PT6G9A	52BT6G9A
			White	1 NO - 1 NC	52PT6GBA	52BT6GBA
		120V	No Lens	1 NO - 1 NC	52PT6GNA	52BT6GNA
			Green	1 NO - 1 NC	52PT6H3A	52BT6H3A
			Clear	1 NO - 1 NC	52PT6JAA	52BT6JAA
		240V	Green	1 NO - 1 NC	52PT6H3A	52BT6H3A
		480V	Clear	1 NO - 1 NC	52PT6JAA	52BT6JAA

Readily available items are in **bold**.

This is a small representation of stocked items.

Push Buttons & Signaling Devices

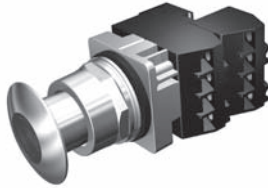
30mm Water, Oil Tight & Corrosion Resistant – Class 52

• Revised •
11/15/14

Illuminated Push Button

Selection Guide

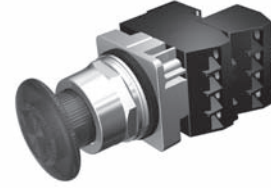
Push Button Mushroom Head Devices – Illuminated⁴



Mushroom Head Metal Ø 1 3/4"



Mushroom Head Plastic Ø 2 1/2"



Mushroom Head Plastic Ø 1 3/4"

Part Number	52	a	T	9	d	e	f	g
-------------	----	---	---	---	---	---	---	---

a	Code	Finish
	P	Chrome-Command 52
	B	Epoxy Coated-Black Max

b	Code	Type
	T	Push Button Operator

c	Code	Function
	9	2 positions – momentary in

d	Code	Operation
		Full Voltage ² (AC/DC)
		Incandescent LED ³
	B	6-8V 6V
	C	12-13V —
	D	24-28V 24-28V
	E	120V 120V
	F	— 240V
		Transformer ²
	G	120V AC
	H	240V AC
	J	480V AC
	K	600V AC

e	Code	Style / Color
		Mushroom Head Metal Ø 1 3/4" (44.5mm)
	2	Red ¹
	3	Green
	5	Blue
	9	Amber
	A	Clear
	B	White
		Mushroom Head Plastic Ø 1 3/4" (44.5 mm)
	R	Red
	S	Green
	T	Amber
		Mushroom Head Plastic Ø 2 1/2" (63.5mm)
	D	Red ¹
	E	Green
	F	Amber
		No Head (full voltage & transformer only)
	Z	No head

f	Code	Contact Blocks
	A	1 NO + 1 NC
	B	2 NO + 2 NC
	C	3 NO + 3 NC
	D	4 NO + 4 NC
	E	1 NC (LB)
	F	2 NO
	G	2 NC
	H	1NO (EM)
	J	1 NC
	K	1 NO

g	Code	Bulb Type
	Blank	Incandescent
	B	LED
	Y	Super-Bright LED ⁵

1 Positive opening according to IEC 60947-5-1, Appendix K.

2 Default bulb type is incandescent. For LED options, append field g. LED option not available on units sold "no head".

3 LED voltages apply to table g option code B and Y.

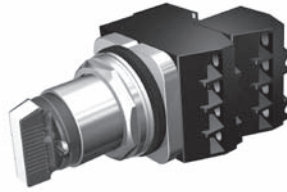
6V and 120V are currently AC only. Replaced by AC/DC rated versions end of 2014.

4 Products available fall 2014.

5 Not available in 240V.

Selection Guide

Selector Switches – Illuminated



Short Lever – Chrome



Short Lever – Black Max

Part Number	52	S a	b	7 c	d	e	f	g	h	i
-------------	----	---------------------------	--------------------------	---------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Finish	Style	Cam Type	Function	Color	Contacts	Part Number
Chrome	Maintained	2 Position: CAM A	24-28V AC/DC	No Insert	None	52SA7ADN
Chrome	Maintained	2 Position: CAM A	120V AC (Transformer)	No Insert	None	52SA7AGN
Chrome	Maintained	3 Position: CAM C	120V AC	No Insert	None	52SA7CGN

Readily available items are in **bold**.
This is a small representation of stocked items.

a	Code	Type
	S	Selector Switch

b	Code	Finish
	A	Chrome - Command 52
	X	Epoxy Coated - Black Max

c	Code	Style
	7	Maintained

d	Code	Function
	A	2 Position: CAM A
	B	3 Position: CAM B
	C	3 Position: CAM C

e	Code	Operation
		Full Voltage ¹ (AC/DC)
		Incandescent LED ²
	B	6-8V 6V
	C	12-13V —
	D	24-28V 24-28V
	E	120V 120V
	F	— 240V
		Transformer ¹
	G	120V AC
	H	240V AC
	J	480V AC
	K	600V AC

1 Default bulb type is incandescent. For LED options, append field i.
LED option not available on units sold "no head".

2 LED voltages apply to table i option code B and Y.
6V and 120V are currently AC only. Replaced by AC/DC rated versions end of 2014.

3 Not available in 240V.

f	Code	Color
	2	Red
	3	Green
	5	Blue
	9	Amber
	A	Clear
	N	No Insert

g	Code	Contact Blocks
	A	1 NO - 1 NC
	E	1 NC (LB)
	H	1 NO (EM)
	J	1 NC
	K	1 NO

h	Code	Contact Quantity & Location
		Left Right
	0	1 —
	1	— 1
	2	1 1
	3	2 —
	4	— 2
	5	2 1
	6	1 2
	7	2 2
	8	3 —
	9	— 3

i	Code	Bulb Type
	Blank	Incandescent
	B	LED
	Y	Super-Bright LED ³

For CAM selection see page 10/164.

Push Buttons & Signaling Devices

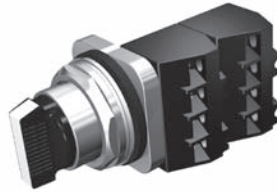
30mm Water, Oil Tight & Corrosion Resistant – Class 52

• Revised •
08/15/14

Non-Illuminated Selector Switch

Selection Guide

Selector Switch – Non-Illuminated



Short Lever



Long Lever

Part Number	52	S		2					
		a	b	c	d	e	f	g ²	h ²

a	Code	Type
	S	Selector Switch

b	Code	Finish
	A	Chrome - Short Lever
	B	Chrome - Long Lever
	X	BlackMax - Short Lever
	W	BlackMax - Long Lever

c	Code	Style
	2	Non-Illuminated

d	Code	Function
	A	2 Position: CAM A
	B	3 Position: CAM B
	C	3 Position: CAM C ¹
	D	3 Position: CAM D
	E	3 Position: CAM E
	G	3 Position: CAM G
	H	4 Position: CAM H

e	Code	Type
		2 Position
		Maintained Spring Return
	A	All —
	C	Left Right
		3 Position
		Maintained Spring Return
	A	All —
	B	Center, Right Left
	C	Center, Left Right
	D	Center Left, Right
		4 Position
		Maintained Position Spring Return
	A	All —

f	Code	Color
	2	Red
	3	Green
	4	Yellow
	5	Blue
	6	Gray
	8	Orange
	B	White
	N	No Insert (Black)

g ²	Code	Contact Blocks
	A	1 NO - 1 NC
	E	1 NC (LB)
	H	1 NO (EM)
	J	1 NC
	K	1 NO

h ²	Code	Contact Quantity & Location
		Left Right
	0	1 —
	1	— 1
	2	1 1
	3	2 —
	4	— 2
	5	2 1
	6	1 2
	7	2 2
	8	3 —
	9	— 3

¹ C CAM on spring return selectors is limited to 4 contact blocks.
For CAM selection see page 10/164.

² For operator without contact blocks leave positions g and h blank.

Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Non-Illuminated Selector Switch

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Selector Switch, Non-Illuminated¹⁾

Contact Type	Contact	Switch Position		Type M = Maintained S = Spring Return	Chrome		Black Max	
		Left	Right		Short Lever	Long Lever	Short Lever	Long Lever
					2-Position Operator			
No Contacts	—	—	—	M M	52SA2AAB	52SB2AAB	52SX2AAB	52SW2AAB
				M<---S	52SA2ACB	52SB2ACB	52SX2ACB	52SW2ACB
1 N.O.	A	O	X	M M	52SA2AABK1	52SB2AABK1	52SX2AABK1	52SW2AABK1
				M<---S	52SA2ACBK1	52SB2ACBK1	52SX2ACBK1	52SW2ACBK1
1 N.O.	A	O	X	M M	52SA2AABA1	52SB2AABA1	52SX2AABA1	52SW2AABA1
1 N.C.	B	X	O	M<---S	52SA2ACBA1	52SB2ACBA1	52SX2ACBA1	52SW2ACBA1

Contact Type	Contact	Switch Position			Type M = Maintained S = Spring Return	Chrome		Black Max	
		Left	Center	Right		Short Lever	Long Lever	Short Lever	Long Lever
						3-Position Operator			
No Contacts	—	—	—	—	M M M	52SA2CAB	52SB2CAB	52SX2CAB	52SW2CAB
					M M M	52SA2BAB	52SB2BAB	52SX2BAB	52SW2BAB
					S--->M M	52SA2BBB	52SB2BBB	52SX2BBB	52SW2BBB
					M M<---S	52SA2BCB	52SB2BCB	52SX2BCB	52SW2BCB
					S--->M<---S	52SA2BDB	52SB2BDB	52SX2BDB	52SW2BDB
1 N.O.	A	O	O	X	M M M	52SA2CABA1	52SB2CABA1	52SX2CABA1	52SW2CABA1
					S--->M M	52SA2CBBA1	52SB2CBBA1	52SX2CBBA1	52SW2CBBA1
1 N.C.	B	X	O	O	M M<---S	52SA2CCBA1	52SB2CCBA1	52SX2CCBA1	52SW2CCBA1
					S--->M<---S	52SA2CDBA1	52SB2CDBA1	52SX2CDBA1	52SW2CDBA1
1 N.O.	A	O	O	X	M M M	52SA2CABA2	52SB2CABA2	52SX2CABA2	52SW2CABA2
1 N.C.	B	X	O	O	S--->M M	52SA2CBBA2	52SB2CBBA2	52SX2CBBA2	52SW2CBBA2
1 N.O.	C	O	O	X	M M<---S	52SA2CCBA2	52SB2CCBA2	52SX2CCBA2	52SW2CCBA2
1 N.C.	D	X	O	O	S--->M<---S	52SA2CDBA2	52SB2CDBA2	52SX2CDBA2	52SW2CDBA2
1 N.O.	A	O	O	X	M M M	52SA2GABJ2K1	52SB2GABJ2K1	52SX2GABJ2K1	52SW2GABJ2K1
1 N.C.	B	X	O	O					
1 N.C.	C	O	X	O					

Contact Type	Contact	Switch Position				Type M = Maintained S = Spring Return	Chrome		Black Max	
		Left	Center	Right	Right		Short Lever	Long Lever	Short Lever	Long Lever
							4-Position Operator			
No Contacts	—	—	—	—	—	M M M M	52SA2HAB	52SB2HAB	52SX2HAB	52SW2HAB
1 N.O.	A	X	O	O	O	M M M M	52SA2HABJ2K1	52SB2HABJ2K1	52SX2HABJ2K1	52SW2HABJ2K1
1 N.C.	B	O	X	O	O					
1 N.C.	C	O	O	X	O					
1 N.O.	A	O	O	O	X	M M M M	52SA2HABJ2K2	52SB2HABJ2K2	52SX2HABJ2K2	52SW2HABJ2K2
1 N.O.	B	X	O	O	O					
1 N.C.	C	O	X	O	O					
1 N.C.	D	O	O	X	O					

Note: X = Closed / O = Open

1) Readily available items are in **bold**.

This is a small representation of stocked items.

Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Keyed Selector Switch

Selection Guide

Keyed Selector Switch

Part Number	52	S a	C b	c	d	e	f ³	g ³	h
-------------	----	--------	--------	---	---	---	----------------	----------------	---

a	Code	Type
	S	Selector Switch

b	Code	Finish
	C	Chrome – Command 52

c	Code	Style
	5	Non-Standard Lock/Key ^{1a}
	6	Standard Lock/Key

d	Code	Function
	A	2 Position: CAM A
	B	3 Position: CAM B
	C	3 Position: CAM C ²
	D	3 Position: CAM D
	E	3 Position: CAM E
	G	3 Position: CAM G
	H	4 Position: CAM H

e	Code	Lock Type
		2 Position
		Maintained / Spring Return
		Key Removal
		Left Right
	E	All Maintained X X
	F	All Maintained X —
	G	All Maintained — X
	X	Spring from Right X —

						3 Position
						Maintained Position
						Spring Return
						Key Removal
						Left Center Right
	E	All	—	X	X	X
	F	All	—	X	—	—
	G	All	—	—	—	X
	H	All	—	—	X	—
	J	All	—	X	—	X
	K	All	—	X	X	—
	M	All	—	—	X	X
	T	Center, Right	Left	—	X	—
	U	Left, Center	Right	—	X	—
	V	Center	Left, Right	—	X	—
	W	Center, Right	Left	—	—	X
	Y	Center, Right	Left	—	X	X
	Z	Left, Center	Right	X	X	X

						4 Position
						Maintained Position
						Key Removal
						Left Left Center Right Center Right
	E	All	X	X	X	X
	F	All	X	—	—	—
	G	All	—	—	—	X

f ³	Code	Contact Blocks
	A	1 NO - 1 NC
	J	1 NC
	K	1 NO
	E	1 NC (LB)
	H	1 NO (EM)

g ³	Code	Contact Quantity & Location
		Left Right
	0	1 —
	1	— 1
	2	1 1
	3	2 —
	4	— 2
	5	2 1
	6	1 2
	7	2 2
	8	3 —
	9	— 3

h	Code	Key Type ^{1b}
	Blank	501CH
	X298	550CH
	X299	549CH
	X300	548CH
	X301	547CH
	X302	506CH



Standard Lock/Key

1a. To Order 1 to 25 special locks for keyed selector switches simply replace the 6 in the 5th digit of the catalog number with a 5 when entering your order.

(Ordering Example: 52SC6AE is changed to 52SC5AE and all locks - up to 25 will be unique).

Per order, line will be uniquely keyed.

1b. b. To order the specific lock types shown in table h, simply append the corresponding "X" suffix to a standard part number (Ordering Example: 52SC6AEX298).

Note: Same list price applies as standard keyed locks.

2. C CAM on spring return selectors is limited to 4 contact blocks. For CAM selection see page 10/164.

3 For operator without contact blocks leave positions f and g blank.

Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Keyed Selector Switch

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Key-operated Selector Switch, Non-Illuminated¹⁾

Contact Type	Contact	Switch Position		Type M = Maintained S = Spring Return	Key Removal	
		Left	Right		Left	Both
					2-Position Operator	
No Contacts	—	—	—	M M	52SC6AF	52SC6AE
				M<---S	52SC6AX	—
1 N.O.	A	O	X	M M	52SC6AFK1	52SC6AEK1
				M<---S	52SC6AXK1	—
1 N.O.	A	O	X	M M	52SC6AFA1	52SC6AEA1
1 N.C.	B	X	O	M<---S	52SC6AXA1	—

Contact Type	Con-tact	Switch Position			Type	Key Removal							
		Left	Cen-ter	Right	M = Maintained S = Spring Return	Left	Right	Center	Left & Center	Left & Right	Center & Right	All Positions	
						3-Position Operator							
No Con-tacts	—	—	—	—	M M M	52SC6CF	52SC6CG	52SC6CH	52SC6CK	52SC6CJ	52SC6CM	52SC6CE	
					M M M	52SC6BF	52SC6BG	52SC6BH	52SC6BK	52SC6BJ	52SC6BM	52SC6BE	
					S--->M M	—	52SC6BW	52SC6BT	—	—	52SC6BY	—	
					M M<----S	—	—	52SC6BU	52SC6BZ	—	—	—	—
					S--->M<---S	—	—	52SC6BV	—	—	—	—	—
1 N.O.	A	O	O	X	M M M	52SC6CFA1	52SC6CGA1	52SC6CHA1	52SC6CKA1	52SC6CJA1	52SC6CMA1	52SC6CEA1	
					S--->M M	—	52SC6CWA1	52SC6CTA1	—	—	52SC6CYA1	—	
1 N.C.	B	X	O	O	M M<----S	—	—	52SC6CUA1	52SC6CZA1	—	—	—	
					S--->M<---S	—	—	52SC6CVA1	—	—	—	—	
1 N.O.	A	O	O	X	M M M	52SC6CFA2	52SC6CGA2	52SC6CHA2	52SC6CKA2	52SC6CJA2	52SC6CMA2	52SC6CEA2	
1 N.C.	B	X	O	O	S--->M M	—	52SC6CWA2	52SC6CTA2	—	—	52SC6CYA2	—	
1 N.O.	C	O	O	X	M M<----S	—	—	52SC6CUA2	52SC6CZA2	—	—	—	
1 N.C.	D	X	O	O	S--->M<---S	—	—	52SC6CVA2	—	—	—	—	
1 N.O.	A	O	O	X	M M M	52SC6GFJ2K1	52SC6GGJ2K1	52SC6GHJ2K1	52SC6GKJ2K1	52SC6GJJ2K1	52SC6GMJ2K1	52SC6GEJ2K1	
1 N.C.	B	X	O	O									
1 N.C.	C	O	X	O									

Contact Type	Contact	Switch Position				Type M = Maintained S = Spring Return	Key Removal	
		Left	Left Center	Right Center	Right		Right	All Positions
							4-Position Operator	
No Contacts	—	—	—	—	—	M M M M	52SC6HG	52SC6HE
1 N.O.	A	X	O	O	O	M M M M	52SC6HGJ2K1	52SC6HEJ2K1
1 N.C.	B	O	X	O	O			
1 N.C.	C	O	O	X	O			
1 N.O.	A	O	O	O	X	M M M M	52SC6HGJ2K2	52SC6HEJ2K2
1 N.O.	B	X	O	O	O			
1 N.C.	C	O	X	O	O			
1 N.C.	D	O	O	X	O			

Note: X = Closed / O = Open

1) Readily available items are in bold.

All Operators listed above are furnished with Lock No. 501CH

This is a small representation of stocked items.

Push Buttons & Signaling Devices

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Selector Push Button

Selection Guide

Selector Push Button

Part Number	52	S a	A b	c	d	e	f ¹
-------------	----	--------	--------	---	---	---	----------------



Selector Push Buttons

Finish	Style	Function	Color	Contacts	Part Number
Chrome	Flush Selector Push Button	2 Position CAM Q	Black	None	52SA3Q1
Chrome	Flush Selector Push Button	2 Position CAM R	Black	None	52SA3R1
Chrome	Flush Selector Push Button	2 Position CAM P	Black	None	52SA3P1

Readily available items are in **bold**.
This is a small representation of stocked items.

a	Code	Type
	S	Selector Push Buttons

b	Code	Finish
	A	Chrome - Command 52

c	Code	Style
	3	Flush Button
	4	Extended Button - 1/2"

d	Code	Function
	P	2 Position: CAM P
	Q	2 Position: CAM Q
	R	2 Position: CAM R
	S	3 Position: CAM S

e	Code	Color
	1	Black
	2	Red

f 1

Code		Contact Blocks						
	CAM P (2 Selector Position)							
	Left		Center		Right		Contact Blocks	Mounting Position
	N	D	N/A	N/A	N	D		
J0	X	O	—	—	O	O	NC	Left
K0	O	X	—	—	X	X	NO	Left
	CAM Q (2 Selector Position)							
	Left		Center		Right		Contact Blocks	Mounting Position
	N	D	N/A	N/A	N	D		
J0	X	X	—	—	O	O	NC	Left
J1	X	O	—	—	O	O	NC	Right
K0	O	O	—	—	O	X	NO	Left
K1	O	X	—	—	O	X	NO	Right
	CAM R (2 Selector Position)							
	Left		Center		Right		Contact Blocks	Mounting Position
	N	D	N/A	N/A	N	D		
J0	X	X	—	—	X	O	NC	Left
J1	X	O	—	—	X	X	NC	Left
K0	O	O	—	—	O	X	NO	Right
K1	O	X	—	—	O	O	NO	Right
	CAM S (3 Selector Position)							
	Left		Center		Right		Contact Blocks	Mounting Position
	N	D	N	D	N	D		
J0	X	O	O	O	O	O	NC	Left
J1	X	O	X	X	O	O	NC	Right
K0	O	O	O	X	O	X	NO	Left
K1	O	X	O	O	O	X	NO	Right

Note: X = Closed / O = Open

1 For operator without contact blocks leave position f blank

• Revised •
11/15/14

Pushbutton Units and Indicator Lights

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Special devices

1
2
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4
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Selection and ordering data

Version		Ohms / color	Order no.	Pack
				Unit
	Potentiometer operator 2 Watts, 500 V AC/DC (NEMA Type 4)	50	52MA3B01	1
		150	52MA3B03	
		250	52MA3B04	
		500	52MA3B06	
		750	52MA3B07	
		1 K	52MA3B08	
		2.5 K	52MA3B10	
		5 K	52MA3B12	
		10 K	52MA3B14	
		15 K	52MA3B15	
		25 K	52MA3B16	
		50 K	52MA3B18	
		100 K	52MA3B20	
		150 K	52MA3B21	
		250 K	52MA3B22	
		500 K	52MA3B24	
		1 M	52MA3B26	
		1.5 M	52MA3B27	
		2 M	52MA3B28	
		5 M	52MA3B31	
	2 Button maintained operator	black (flush) / red (flush)	52MA2A1A2	1
		black (flush) / red (extended)	52MA2A1B2	
		black (flush) / yellow (mushroom)	52MA2A1D4	
		green (flush) / red (flush)	52MA2A3A2	
		green (flush) / red (extended)	52MA2A3B2	
		green (flush) / red (mushroom)	52MA2A3D2	
		green (flush) / green (mushroom)	52MA2A3D3	
		Button remains depressed when pushed	52MA2	
	Wobble stick 2.5" operator For use with 52BAJ (NC) contact block	red	52ABW2 ^①	1
		green	52ABW3 ^①	
		grey	52ABW6 ^①	
	Maintained toggle operator		52ABT	1

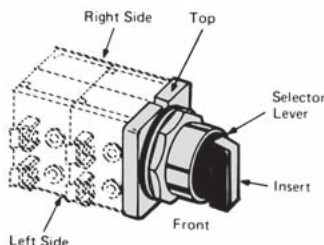
① For use with 52BAJ (NC) contact block

Pushbutton Units and Indicator Lights

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Cam selection

Selection and ordering data



Ordering Information

- Contact blocks are ordered separately, [see page 10/164](#)
- Determine which table to use based upon the type of selector (non-illum selector switch-top, illum selector switch-middle, and selector pushbutton-bottom).
- Find the correct number of selector positions (2, 3 or 4 positions).
- Select the contact operation required for each selector position. X indicates the contacts are closed, while O indicates the contacts are open. (For the selector pushbutton, N=normal and D=depressed).
- Contact block must be assembled in position shown for each circuit application.
- Identify the CAM letter required for the chosen contact operation (only 1 CAM can be used per selector switch or selector pushbutton).
- Contact blocks must be assembled in the position shown for each circuit application. The mounting position is viewed from the front of the device.

Ordering CAMs D, E or G

- CAM D, E or G may be ordered at the same price by changing the 6th character of the selector catalog number. Example: Selector with D cam **52SX2DAB**.

Size Requirements

- C CAM on spring return selectors is limited to 4 contact blocks.
- Selector operators in enclosures are limited to depth of 1 contact block. (2 blocks wide).

Non-illuminated and keyed selector switches (viewed from front)

2 Selector Positions				Contact Blocks		CAM		Mounting					
Left		Right						Left	Right				
X		O		NC (52BAJ)		A		L	or	R			
O		X		NO (52BAK)		A		L	or	R			
3 Selector Positions				Contact Blocks		CAM		Mounting					
Left		Center		Right				Left	Right				
X		O		O		NO (52BAK)		B			R		
O		O		X		NO (52BAK)		B		L			
X		X		O		NC (52BAJ)		B		L			
O		X		X		NC (52BAJ)		B			R		
X		O		X		2NO (2-52BAK)		B		L	and	R	
X		O		O		NC (52BAJ)		C		L	or	R	
O		O		X		NO (52BAK)		C		L	or	R	
O		X		O		NC (52BAJ)		D		L	or	R	
O		O		X		NO (52BAK)		D		L	or	R	
X		O		O		NO (52BAK)		E		L	or	R	
O		X		O		NC (52BAJ)		E		L	or	R	
X		O		O		NC (52BAJ)		G		L			
O		X		O		NC (52BAJ)		G				R	
O		O		X		NO (52BAK)		G		L	or	R	
4 Selector Positions				Contact Blocks		CAM		Mounting					
Left		Left Center		Right Center		Right				Left	Right		
X		O		O		O		NO (52BAK)		H			R
O		X		O		O		NC (52BAJ)		H		L	
O		O		X		O		NC (52BAJ)		H			R
O		O		O		X		NO (52BAK)		H		L	

Illuminated selector switches (viewed from front)

2 Selector Positions		Contact Blocks		CAM		Mounting	
Left	Right					Left	Right
X	O	NC (52BAJ)	A	L			
O	X	NO (52BAK)	A	L			

3 Selector Positions			Contact Blocks		CAM		Mounting	
Left	Center	Right					Left	Right
O	O	X	NC (52BAJ)	B				R
O	X	O	NO (52BAK)	B				R
X	O	O	NC (52BAJ)	C			L	
O	O	X	NO (52BAK)	C			L	

Selector Pushbuttons (viewed from front)

2 Selector Positions				Contact Blocks		CAM		Mounting	
Left				Right				Left	Right
N	D			N	D				
X	O			O	O	NC (52BAJ)	Q		R
X	X			O	O	NC (52BAJ)	Q	L	
O	X			O	X	NO (52BAK)	Q		R
O	O			O	X	NO (52BAK)	Q	L	
X	O			O	O	NC (52BAJ)	P	L	or
O	X			X	X	NO (52BAK)	P	L	or
X	X			X	O	NC (52BAJ)	R		
X	O			X	X	NC (52BAJ)	R	L	
O	X			O	O	NO (52BAK)	R		R
O	O			O	X	NO (52BAK)	R	L	
3 Selector Positions				Contact Blocks		CAM		Mounting	
Left		Center		Right				Left	Right
N	D	N	D	N	D				
X	O	O		O	O	NC (52BAJ)	S	L	
X	O	X		X	O	NC (52BAJ)	S		R
O	X	O		O	X	NO (52BAK)	S		R
O	O	O		X	O	NO (52BAK)	S	L	

Pushbutton Units and Indicator Lights

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Custom selector switch designs

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Selection and ordering data

Assembled Non-illuminated Selector Switches

- Determine contact block and location from above.
- Select block suffix. Ex: **J = 52BAJ**.
- Now select position suffix.
- **1-52BAJ** block mounted on right side, suffix will be **J 1**.
- Additional suffixes allow for multiple quantities and locations.
- Repeat process for next block if required.
- Add list price of blocks to operator list price.
- Consult factory for delivery.

Example 1: X O O O O X HAND-OFF-AUTO Maintained Switch Catalog No 52SA2CAB A 1 = 52A2CABA1 (52BJK block mounted on right side) Example 2: X O O 52BAJ (L) O X O 52BAJ (R) O O X 52BAK (L or R) }K1 G Cam required Catalog No 52SA2GAB J2 K1 = 52SA2GABJ2K1	Block Suffix A = 1 NO - 1 NC, 52BJK E = NC Late Break, 52BAE H = NO Early Make, 52BAH J = NC, 52BAJ K = NO, 52BAK	Position Suffix		
		Suffix	Quantity and Location	
			Left	Right
			0	1 —
			1	— 1
			2	1 1
			3	2 —
			4	— 2
			5	2 1
			6	1 2
7	2 2			
8	3 —			
9	— 3			

Pushbutton Units and Indicator Lights

30mm Water, Oil Tight & Corrosion Resistant – Class 52

• Revised •
11/15/14

Accessories and spare parts

Selection and ordering data

	Version	Suitable for	Color	Order no.
	Flush actuator lens cap	For flush type, non-illuminated pushbuttons bag of 20 caps	black red green yellow blue gray orange kit- all colors	52RA1A1 52RA1A2 52RA1A3 52RA1A4 52RA1A5 52RA1A6 52RA1A8 52RA1AN
	Extended actuator lens cap	For extended type, non-illuminated pushbuttons bag of 20 caps	black red green yellow blue gray orange 1 of each color cap	52RA1B1 52RA1B2 52RA1B3 52RA1B4 52RA1B5 52RA1B6 52RA1B8 52RA1BN
	Mushroom head cap - Plastic set-screw type	For large 2 1/2" (63.5mm) type, set screw non-illuminated mushroom pushbuttons For small 1 5/8" (41.3mm) type, non-illuminated mushroom pushbuttons	black red green yellow blue gray orange 1 kit of each color cap black red green yellow blue gray orange 1 of each color cap	52RB3E1 52RB3E2 52RB3E3 52RB3E4 52RB3E5 52RB3E6 52RB3E8 52RB3EN 52RB3D1 52RB3D2 52RB3D3 52RB3D4 52RB3D5 52RB3D6 52RB3D8 52RB3DN
	Mushroom head cap - Metal set-screw type	For small 1 5/8" (41.3mm) type, set screw non-illuminated mushroom pushbuttons	chrome red green	52RB3FC 52RB3F2 52RB3F3
	Replacement Lens for Indicator Lights	For catalog numbers starting with 52PL or 52BL ^{①②} Plastic Glass	red green blue amber clear white 1 of each color red green blue amber clear white 1 of each color	52RA4S2 52RA4S3 52RA4S5 52RA4S9 52RA4SA 52RA4SB 52RA4SN 52RA4T2 52RA4T3 52RA4T5 52RA4T9 52RA4TA 52RA4TB 52RA4TN
	Replacement Lens for Push to Test/Illuminated Pushbuttons	For catalog numbers starting with 52PT or 52BT ^③ Plastic	red green blue amber clear white	52RA5S2 52RA5S3 52RA5S5 52RA5S9 52RA5SA 52RA5SB

① To order replacement lens for indicator lights starting with 52PA, 52PE, or 52PX, change the 6th digit to P for plastic and G for glass.

② It is possible to retrofit catalog numbers starting with 52PA, 52PE and 52PX with the replacement lens. The new lens have concentric ribs for improved light distribution.

③ To order replacement lens for push to test / illuminated pushbuttons starting with 52PA, 52PE, or 52PX, change the 6th digit to a P.

Selection and ordering data

	Version	Suitable for	Color	Order no.
	Mushroom head push pull illuminated plastic screw-on type	For small 1 3/4" type, push-pull units	red green amber	52RC3JR 52RC3JS 52RC3JT
		For large 2 1/2" type, push-pull units	red green amber	52RC3KR 52RC3KS 52RC3KT
	Mushroom head push pull illuminated metal screw-on type	Chrome, for small 1 3/4" type, push-pull units	red green amber white	52RB3H2 52RB3H3 52RB3H9 52RB3HB
		BlackMax, for small 1 3/4" type, push-pull units	red green amber white	52RX3H2 52RX3H3 52RX3H9 52RX3HB
	Mushroom head push pull non-illuminated plastic screw-on type	For small 1 3/4" type, push-pull units (catalog numbers starting with 52PP or 52BP) ^①	black red green yellow blue gray orange 1 of each color	52RC3D1 52RC3D2 52RC3D3 52RC3D4 52RC3D5 52RC3D6 52RC3D8 52RC3DN
		For large 2 1/2" type, push-pull units (catalog numbers starting with 52PP or 52BP) ^①	black red green yellow blue gray orange 1 of each color	52RC3E1 52RC3E2 52RC3E3 52RC3E4 52RC3E5 52RC3E6 52RC3E8 52RC3EN
	Mushroom head push pull non-illuminated metal screw-on type	For small 1 3/4" type, push-pull units (catalog numbers starting with 52PP or 52BP) ^①	red green chrome	52RC3F2 52RC3F3 52RC3FC
	Twist to release head illuminated plastic screw-on type	For small twist to release units	red green amber	52RC3RR 52RC3RS 52RC3RT
	Twist to release head non-illuminated plastic screw-on type	For small twist to release units	red green yellow	52RC3R2 52RC3R3 52RC3R4
	Replacement lens kit for illuminated selector switches (Knob with Insert)		red green blue amber clear white	52RA6P2 52RA6P3 52RA6P5 52RA6P9 52RA6PA 52RA6PB
	Lever inserts Short lever		red green yellow blue gray orange white	52RA2A2 52RA2A3 52RA2A4 52RA2A5 52RA2A6 52RA2A8 52RA2AB
	Long lever		red green yellow blue gray orange white	52RA2B2 52RA2B3 52RA2B4 52RA2B5 52RA2B6 52RA2B8 52RA2BB

① For push-pull units whose catalog numbers that start with 52PX, 52PA or 52PE, replacement heads are available. Order from the 52RB type "Mushroom head pushbutton cap" section on page 10/164.

Pushbutton Units and Indicator Lights

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Accessories and spare parts

Selection and ordering data

	Version	Suitable for	Color	Order no.
	Protective boot Offers protection from ice and foreign substances from interfering with button operation	Flush pushbutton operations	clear black	52AABA 52AAB1
	Guards Prevents accidental operation	Non-illuminated basic pushbuttons 1 5/8" mushroom pushbuttons, 1 3/4" push-pull units ^① , and twist to release units Push to test/illuminated pushbutton and indicator lights	chrome blackmax chrome blackmax chrome blackmax	52AAGP 52AXGP 52AAGM 52AXGM 52AAGL 52AXGL
	EMERGENCY-STOP Lock Out EMERGENCY-STOP Backing Ring	Class 52 Illuminated Mushroom Head Pushbuttons; 304 Stainless Steel Yellow 90mm E-STOP Backing Ring	chrome (304 SS)	52AALE 52AAR
	Locknuts Replacement front ring	Non-illuminated basic pushbuttons Non-illuminated mushroom pushbuttons Push-pull and twist-to-release units (only for push-pull units starting with 52PP or 52BP) ^② Indicator Lights Selector switches	chrome blackmax chrome blackmax chrome blackmax blue amber chrome blackmax	52AANP 52AXNP 52AANL 52AXNL 52CANP 52CXNP 52AANL 52AXNL 52AANS 52AXNS
	Mounting Accessories	Class 52 Trim Washer Kit (Set of 10 pcs) Class 52 Washer Kit (Include 2-Neoprene Gaskets, 1-Trim Washer, 1-Index Locking Ring (chrome))	chrome	52AAQ 52AAD
	Padlock attachments	Non-illuminated basic pushbuttons	flush extended	52AALA 52AALB
	Padlock cover Lock devices in off position	Pushbuttons, selector switches, and non-illuminated mushroom heads		52AALS
	Lock nut wrench	All devices		52MAWB
	Hole plugs		corrosion resistant steel, grey stainless steel	52AAH6 52ABH6 52ABHS
	Spare keys (Kit includes 1 Key)	Class 52 Standard Keyed Selector Switch. Keyed Selector Switch ordered with Suffix X302. Keyed Selector Switch ordered with Suffix X301. Keyed Selector Switch ordered with Suffix X300. Keyed Selector Switch ordered with Suffix X299. Keyed Selector Switch ordered with Suffix X298.	501CH 506CH 547CH 548CH 549CH 550CH	52KEY-501CH 52KEY-506CH 52KEY-547CH 52KEY-548CH 52KEY-549CH 52KEY-550CH
	Grounding kit	All devices		52AL109145
	Touchsafe contact blocks with gold flashing			
52 BAJ	1 NO 1 NC 1 NO - 1 NC			52BAK 52BAJ ^④ 52BJK ^④
	1 NO early make 1 NC late break 1 NO - 1 NC	closes before 52BAK opens after 52 BAJ		52BAH 52BAE 52BAR ^④
52 BAK		Reed switch; UL listed for class 1 division 2; .25A Max, 200V AC, 10 Watt max .5A Max, 200V DC, 10 Watt max		52BAU
	1 NC extra late break			
52 BAR				

① These can also be used with the 1 5/8" push-pull devices.

② For push-pull units starting with part numbers 52PA, 52PE or 52PX, replacement locknuts can be ordered using 52AANL (Chrome) and 52AXNL (BlackMax).

③ Hermetically Sealed

④  Positive opening according to IEC 60947-5-1, Appendix K.

Selection and ordering data

Version	Suitable for	Lamp voltage	Color	Order no.
Lamps with screw connection, miniature bayonet (BA 9s style)				
	Incandescent lamps,			
	Flashing, type 267 lamp (replaces 755 lamp)	51, 52	6 V	52AABNF
	6V type 755 lamp (Rated 150 mA)	51, 52	6 V	52AABN
	12V type 756 (Rated 80 mA)	51, 52	12 V	52AACN
	24V type 757 (Rated 80 mA)	51, 52	24 V	52AADN
	48V, 2W	52	48 V	3SB1902-1AP
	60V, 2W	52	60 V	3SR9424
	120V, 2.5W, type #120MB (Rated 250 mA)	52	120 V	52AAENC1
Neon (uses resistors) type B2A (NE-51H)		52	120 V	52AAPN
Candelabra, 120V, 3W, Full voltage type 3S6/5		52 older revision styles	120 V	52AAENC
LED bulbs^①				
LED, BA9s type ^②		Class 52	6 V AC/DC 24 V AC/DC 120 V AC/DC	52AEB□ 52AED□ 52AEE□
Super-Bright LED ^②		Class 52	6 V AC/DC 24 V AC/DC 120 V AC/DC 120 V DC	52AEB□7 52AED□7 52AEE□7 52AEV□7
LED lighting module with integrated LED.				
Single LED (Rated 35 mA Maximum)		Class 52	24 V AC/DC 120 V AC 240 V AC	52AAIL□ 52AAIM□ 52AAIN□
Full voltage lighting module accessory with BA9s type lamp^①				
LED ^②		Class 52	6 V AC/DC 24 V AC/DC 120 V AC/DC	52Aafb□B 52Aafd□B 52Aafe□B
Super-Bright LED ^②		Class 52	6 V AC/DC 24 V AC/DC 120 V AC/DC	52Aafb□Y 52Aafd□Y 52Aafe□Y
Incandescent bulb		Class 52	6 V AC/DC 24 V AC/DC 120 V AC/DC	52Aafb 52Aafd 52Aafe
Transformer lighting module accessory with BA9s type lamp^①				
LED		Class 52	120 V AC 240 V AC 480 V AC 600 V AC	52AATG□B 52AATH□B 52AATJ□B 52AATK□B
Super-Bright LED		Class 52	120 V AC 240 V AC 480 V AC 600 V AC	52AATG□Y 52AATH□Y 52AATJ□Y 52AATK□Y
Incandescent bulb		Class 52	120 V AC 240 V AC 480 V AC 600 V AC	52AATGN 52AATHN 52AATJN 52AATKN

Color options:

red
green
yellow/amber
blue
white/clear

2
3
4
5
B

① Standard LED lamps are recommended for indoor applications, Super-Bright LED Lamps are recommended for outdoor applications.

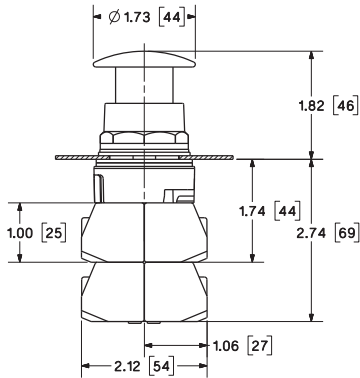
② 6V, 24V (Super Bright only) and 120V are currently AC only.
Replaced by AC/DC rated versions end of 2014.

Pushbutton Units and Indicator Lights

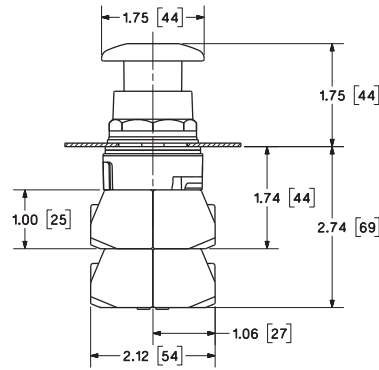
30mm Water, Oil Tight & Corrosion Resistant – Class 52

Dimensional drawings

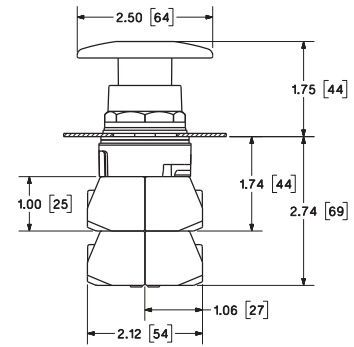
Non-Illuminated Push-Pull
Metal Mushroom Head



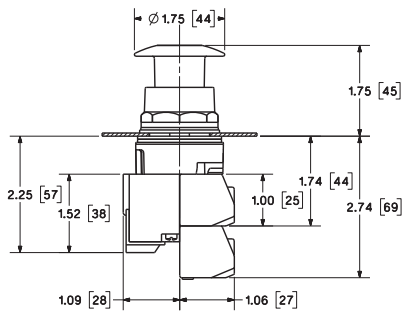
Non-Illuminated Push-Pull
Small Plastic Mushroom Head



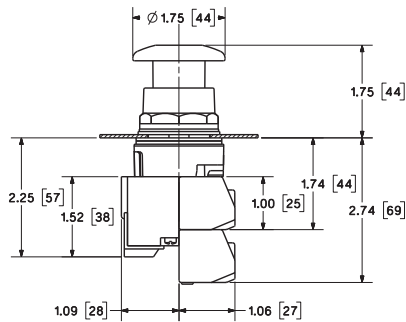
Non-Illuminated Push-Pull
Large Plastic Mushroom Head



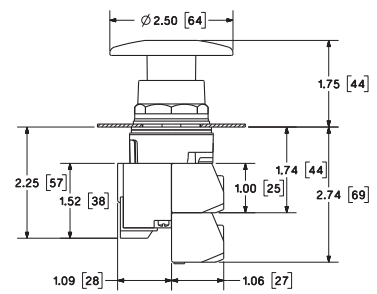
Illuminated Push-Pull
Metal Mushroom Head



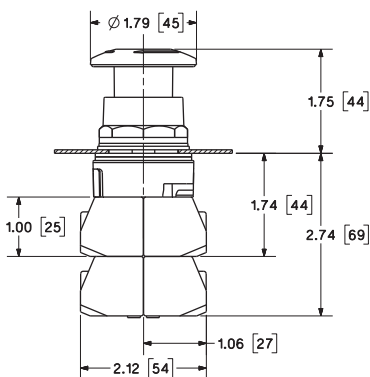
Fully Illuminated Push-Pull
Small Plastic Mushroom Head



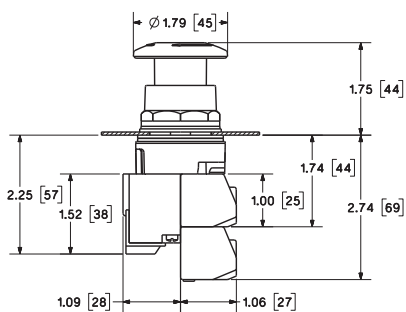
Illuminated Push-Pull
Large Plastic Mushroom Head



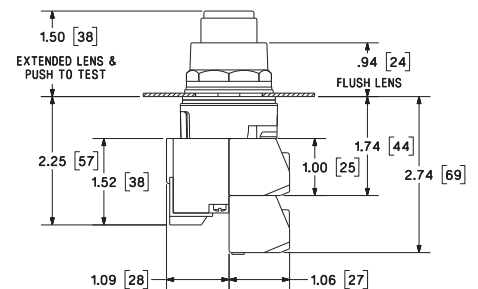
Non-Illuminated Twist Release
Plastic Mushroom Head



Illuminated Twist Release
Plastic Mushroom Head



Illuminated Pushbutton Flush Lens
Illuminated Pushbutton Extended Lens
Illuminated Push to Test



Pushbutton Units and Indicator Lights

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Dimensional drawings

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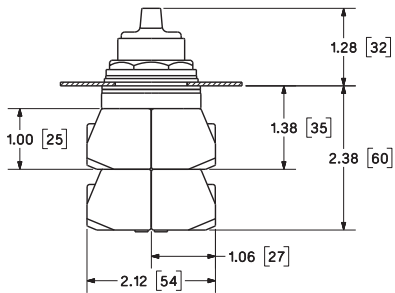
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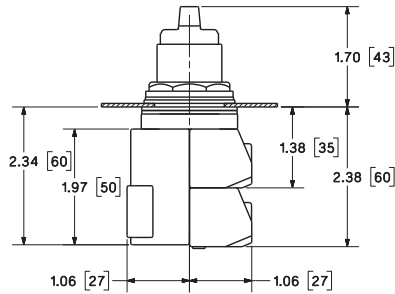
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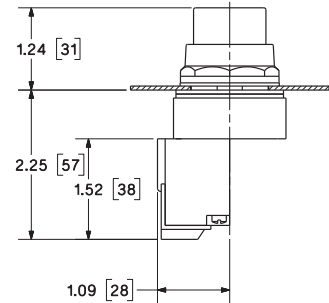
Selector Switch
Non-Illuminated



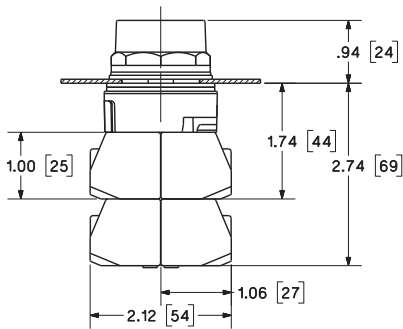
Selector Switch
Illuminated



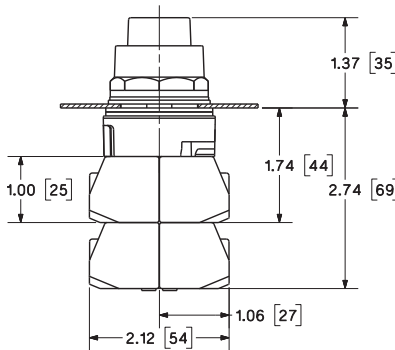
Indicator Light
Plastic Lens



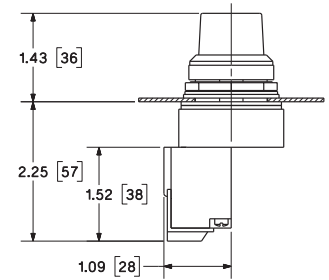
Momentary Pushbutton
Non-Illuminated Flush Cap



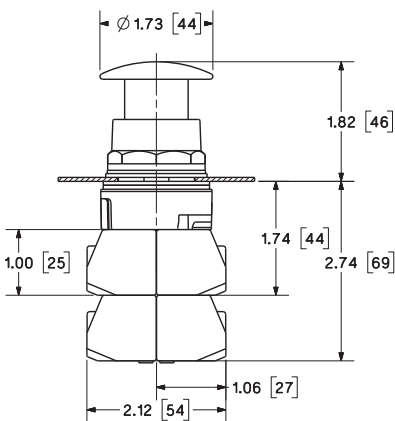
Momentary Pushbutton
Non-Illuminated Raised Cap



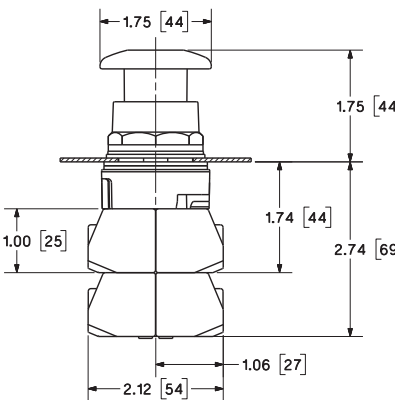
Indicator Light
Glass Lens



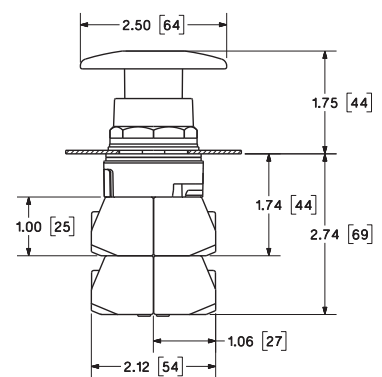
Momentary Pushbutton
Metal Mushroom Head



Momentary Pushbutton
Small Plastic Mushroom Head



Momentary Pushbutton
Large Plastic Mushroom Head

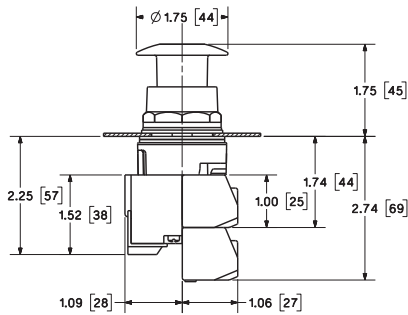


Pushbutton Units and Indicator Lights

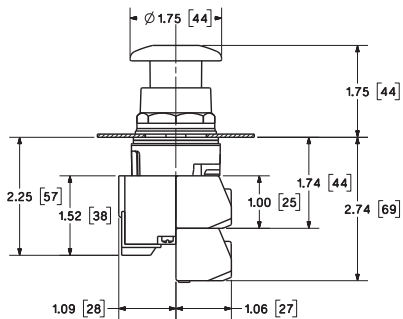
30mm Water, Oil Tight & Corrosion Resistant – Class 52

Dimensional drawings

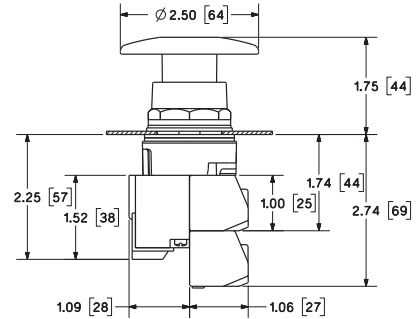
Illuminated Momentary Pushbutton
Metal Mushroom Head



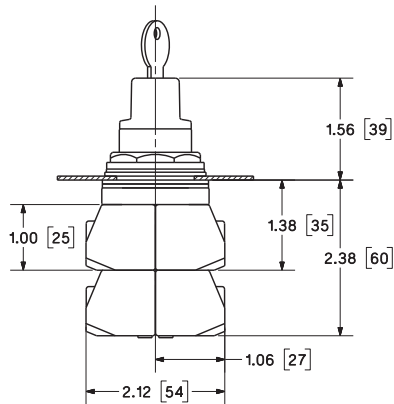
Illuminated Momentary Pushbutton
Small Plastic Mushroom Head



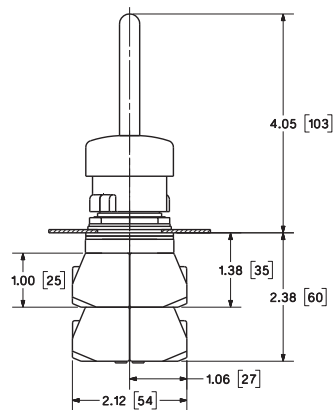
Illuminated Momentary Pushbutton
Large Plastic Mushroom Head



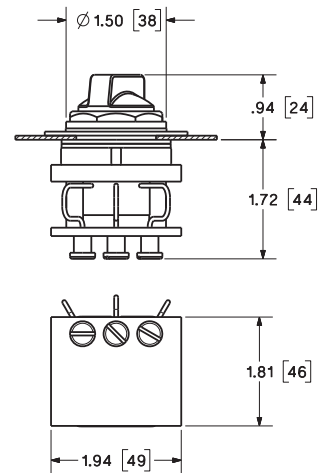
Selector Switch
Keyed



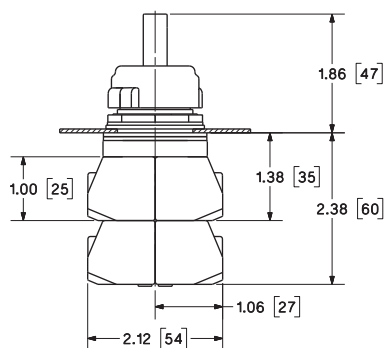
Wobble Switch



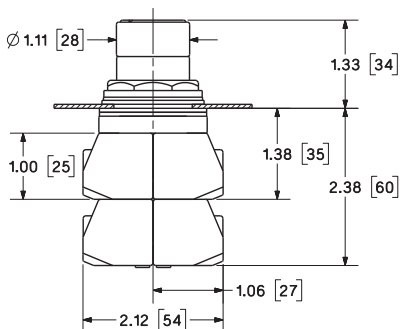
Potentiometer Switch



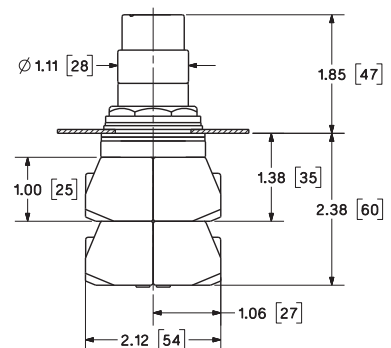
Toggle Switch



Selector Pushbutton Switch
Flush Cap



Selector Pushbutton Switch
Raised Cap



Pushbutton Units and Indicator Lights

30mm Water, Oil Tight & Corrosion Resistant – Class 52

Dimensional drawings

1

2

3

4

5

6

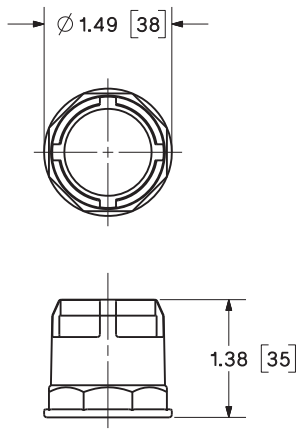
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8

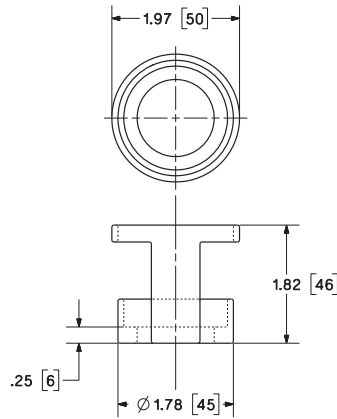
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10

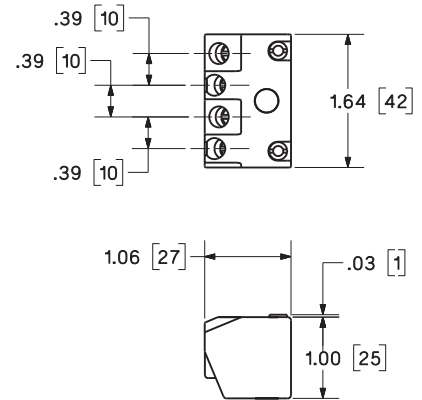
Momentary Pushbutton Guard
Illuminated Push to Test Guard



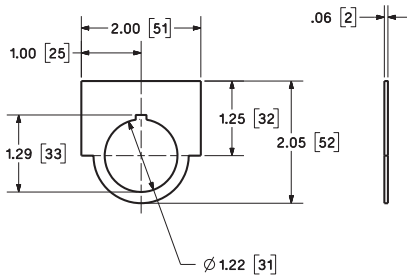
Mushroom Head Guard



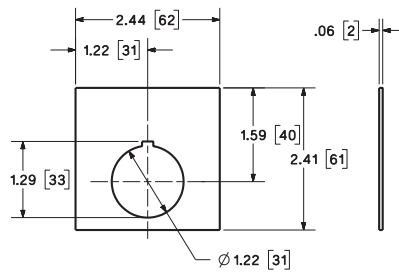
Contact Block



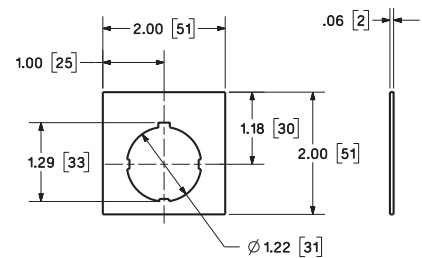
Large Metal Legend Plate



Automotive Metal Legend Plate



Large Plastic Legend Plate



Pushbutton Units and Indicator Lights

30mm Water, Oil Tight & Corrosion Resistant - Class 52

Class 52 oiltight pushbutton stations

Selection and ordering data

	Actuator identification C = top device in station B = middle device in station A = bottom device in station	Degree of protection ^①	Contact / voltage	No. of command points	Order no.	Pack Unit
1 unit control station 	A = Momentary flush pushbutton black, label "START"	NEMA 12	1NO - 1NC	1	52C101A	
	A = Momentary raised pushbutton red, label "STOP"	NEMA 12	1NO - 1NC	1	52C103A	
	A = Momentary mushroom head red, label "STOP"	NEMA 12	1NO - 1NC	1	52C104A	
	A = Maintained metal mushroom head red, label "EMERGENCY STOP"	NEMA 12	1NO - 1NC	1	52C117A	
	A = 2 position selector switch "OFF-ON"	NEMA 12	1NO - 1NC	1	52C159A	
	A = 3 position selector switch "HAND-OFF-AUTO"	NEMA 12	1NO - 1NC	1	52C156A	
	A = Indicator light, red	NEMA 12	120V Transformer type	1	52C131A	
	A = Indicator light, green	NEMA 12	120V Transformer type	1	52C135A	
	A = Momentary flush pushbutton black, label "START"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C101S	
	A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C103S	
	A = Momentary mushroom head red, label "STOP"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C104S	
	A = Maintained metal mushroom head red, label "EMERGENCY STOP"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C116S	
	A = 2 position selector switch "OFF-ON"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C159S	
	A = 3 position selector switch "HAND-OFF-AUTO"	NEMA 4X Stainless Steel	1NO - 1NC	1	52C156S	
	A = Momentary flush pushbutton black, label "START"	NEMA 4X Fiberglass	1NO - 1NC	1	52C101X	
	A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO - 1NC	1	52C103X	
	A = Momentary mushroom head red, label "STOP"	NEMA 4X Fiberglass	1NO - 1NC	1	52C104X	
	A = Maintained metal mushroom head red, label "EMERGENCY STOP"	NEMA 4X Fiberglass	1NO - 1NC	1	52C116X	
	A = 2 position selector switch "OFF-ON"	NEMA 4X Fiberglass	1NO - 1NC	1	52C159X	
	A = 3 position selector switch "HAND-OFF-AUTO"	NEMA 4X Fiberglass	1NO - 1NC	1	52C156X	
2 unit control station 	B = Momentary flush pushbutton black, label "START" A = Momentary raised pushbutton red, label "STOP"	NEMA 12	1NO, 1NC 1NO, 1NC	2	52C201A	
	B = Momentary flush pushbutton black, label "START" A = Momentary Mushroom head pushbutton red, label "STOP"	NEMA 12	1NO, 1NC 1NO, 1NC	2	52C202A	
	B = Momentary flush pushbutton, label "FORWARD" A = Momentary flush pushbutton, label "REVERSE"	NEMA 12	1NO, 1NC 1NO, 1NC	2	52C204A	
	B = Momentary flush pushbutton, label "UP" A = Momentary flush pushbutton, label "DOWN"	NEMA 12	1NO, 1NC 1NO, 1NC	2	52C223A	
	B = Indicator light, red, label "RUN" A = Maintained selector switch, label "HAND-OFF-AUTO"	NEMA 12	120V Transformer type	2	52C224A	
	B = Indicator light, red A = Indicator light, green	NEMA 12	120V Transformer type	2	52C230A	
	B = Momentary flush pushbutton black, label "START" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO, 1NC 1NO, 1NC	2	52C201S	
	B = Momentary flush pushbutton black, label "START" A = Momentary Mushroom head pushbutton red, label "STOP"	NEMA 4X Stainless Steel	1NO, 1NC 1NO, 1NC	2	52C202S	
	B = Momentary flush pushbutton, label "UP" A = Momentary flush pushbutton, label "DOWN"	NEMA 4X Stainless Steel	1NO, 1NC 1NO, 1NC	2	52C223S	
	B = Indicator light, red, label "RUN" A = Maintained selector switch, label "HAND-OFF-AUTO"	NEMA 4X Stainless Steel	120V Transformer type 1NO, 1NC	2	52C224S	
	B = Momentary flush pushbutton black, label "START" A = Momentary raised pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO, 1NC 1NO, 1NC	2	52C201X	
	B = Momentary flush pushbutton black, label "START" A = Momentary Mushroom head pushbutton red, label "STOP"	NEMA 4X Fiberglass	1NO, 1NC 1NO, 1NC	2	52C202X	
	B = Momentary flush pushbutton, label "UP" A = Momentary flush pushbutton, label "DOWN"	NEMA 4X Fiberglass	1NO, 1NC 1NO, 1NC	2	52C223X	
	B = Indicator light, red, label "RUN" A = Maintained selector switch, label "HAND-OFF-AUTO"	NEMA 4X Fiberglass	120V Transformer type 1NO, 1NC	2	52C224X	

① NEMA 4X Stainless Steel Enclosure is 304 SS.

Pushbutton Units and Indicator Lights

30mm Water, Oil Tight & Corrosion Resistant - Class 52

Class 52 oiltight pushbutton stations

Selection and ordering data

	Actuator identification	Degree of protection ^①	Contact / voltage	No. of command points	Order no.	Pack
						Unit
3 unit control station 	C = Indicator light, red	NEMA 12	120V 1NO, 1NC	3	52C307A	
	B = Momentary flush pushbutton black, label "START"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "FORWARD"	NEMA 12	1NO, 1NC	3	52C301A	
	B = Momentary flush pushbutton black, label "REVERSE"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "UP"	NEMA 12	1NO, 1NC	3	52C332A	
	B = Momentary flush pushbutton black, label "DOWN"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "OPEN"	NEMA 12	1NO, 1NC	3	52C333A	
	B = Momentary flush pushbutton black, label "CLOSE"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "HI"	NEMA 12	1NO, 1NC	3	52C334A	
	B = Momentary flush pushbutton, black label "LOW"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Indicator light, red	NEMA 4X Stainless Steel	120V 1NO, 1NC	3	52C307S	
	B = Momentary flush pushbutton black, label "START"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "FORWARD"	NEMA 4X Stainless Steel	1NO, 1NC	3	52C301S	
	B = Momentary flush pushbutton black, label "REVERSE"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "UP"	NEMA 4X Stainless Steel	1NO, 1NC	3	52C332S	
	B = Momentary flush pushbutton black, label "DOWN"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "OPEN"	NEMA 4X Stainless Steel	1NO, 1NC	3	52C333S	
	B = Momentary flush pushbutton black, label "CLOSE"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "HI"	NEMA 4X Stainless Steel	1NO, 1NC	3	52C334S	
	B = Momentary flush pushbutton, black label "LOW"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Indicator light, red	NEMA 4X Fiberglass	120V 1NO, 1NC	3	52C307X	
	B = Momentary flush pushbutton black, label "START"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "FORWARD"	NEMA 4X Fiberglass	1NO, 1NC	3	52C301X	
	B = Momentary flush pushbutton black, label "REVERSE"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "UP"	NEMA 4X Fiberglass	1NO, 1NC	3	52C332X	
	B = Momentary flush pushbutton black, label "DOWN"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "OPEN"	NEMA 4X Fiberglass	1NO, 1NC	3	52C333X	
	B = Momentary flush pushbutton black, label "CLOSE"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			
	C = Momentary flush pushbutton black, label "HI"	NEMA 4X Fiberglass	1NO, 1NC	3	52C334X	
	B = Momentary flush pushbutton, black label "LOW"		1NO, 1NC			
	A = Momentary raised pushbutton red, label "STOP"		1NO, 1NC			

① NEMA 4X Stainless Steel Enclosure is 304 SS.

Empty enclosures

Version	Number of command points	Degree of protection	Order No.①	Pack
				Unit
Standard enclosures come with 2 1/4" leg center for legend spacing. Automotive end plates require 2 1/2 " spacing. For more than 2 contact blocks on the right or left, use extra deep enclosure.	1	NEMA Type 12/13	P30EMS01	
	1	NEMA Type 12/13 extra deep	P30EMS01D	
	1	NEMA Type 4/4X stainless steel	P30EMS014	
	1	NEMA Type 4/4X Fiberglass	P30EMS01X	
Mounting hole arrangement	2	NEMA Type 12/13	P30EMS02	
	2	NEMA Type 12/13 extra deep	P30EMS02D	
	2	NEMA Type 4/4X stainless steel	P30EMS024	
	2	NEMA Type 4/4X Fiberglass	P30EMS02X	
1 thru 4 are in one row	3	NEMA Type 12/13	P30EMS03	
6 holes are 3 down and 2 across	3	NEMA Type 12/13 extra deep	P30EMS03D	
9 holes are 3 down and 3 across	3	NEMA Type 4/4X stainless steel	P30EMS034	
12 holes are 4 down and 3 across	3	NEMA Type 4/4X Fiberglass	P30EMS03X	
16 holes are 4 down and 4 across	4	NEMA Type 12/13	P30EMS04	
	4	NEMA Type 12/13 extra deep	P30EMS04D	
	4	NEMA Type 4/4X stainless steel	P30EMS044	
	4	NEMA Type 4/4X Fiberglass	P30EMS04X	
	6	NEMA Type 12/13	P30EMS06	
	6	NEMA Type 12/13 extra deep	P30EMS06D	
	6	NEMA Type 4/4X stainless steel	P30EMS064	
	9	NEMA Type 12/13	P30EMS09	
	9	NEMA Type 12/13 extra deep	P30EMS09D	
	9	NEMA Type 4/4X stainless steel	P30EMS094	
	12	NEMA Type 12/13	P30EMS12	
	12	NEMA Type 12/13 extra deep	P30EMS12D	
	12	NEMA Type 4/4X stainless steel	P30EMS124	
	16	NEMA Type 12/13	P30EMS16	
	16	NEMA Type 12/13 extra deep	P30EMS16D	
	16	NEMA Type 4/4X stainless steel	P30EMS164	

	A	B	C	D
1	○	○	○	○
2	○	○	○	○
3	○	○	○	○
4	○	○	○	○

To order non-standard control stations select catalog numbers from the previous pages, determine the required position in the enclosure and fill in the table below. If a special legend plate is required, specify description in the table. The combined list prices of the components is the list price of the station.

- Select enclosure
- Vertical or Horizontal. Outline Diagram at left starting at the top left-hand corner. Example: 3 unit vertical outline location No. 1A, 2A and 3A. 3 unit horizontal outline location No. 1A, 1B, and 1C
- List location No. and applicable catalog numbers in the table below. Use complete catalog numbers where possible

Order No./Item No.

Customer

Enclosure Catalog No.

[illegible]

① NEMA 4X Stainless Steel Enclosure is 304 SS.

Pushbutton Units and Indicator Lights

30 mm Heavy Duty, Watertight/Oiltight, Class 52

Legend plates for Class 51 and 52

1
2
3
4
5
6
7
8
9
10

Design

The 30 mm legend plates are approved for the use with both Class 51 and Class 52 devices.
Automotive legend plates require 2 1/2" mounting centers. Plastic legend plates will have white letters ingraved.

When ordering custom engraved legend plates, specify the required inscription text.

Selection and ordering data

Inscription	Large (1 7/16" x 2") Order No.	Automotive ^① (2 7/16" x 2 7/16") Order No.	Large Plastic ^② (1 7/16" x 2") Order No.	Automotive Plastic ^{①②} (2 7/16" x 2 7/16") Order No.
"Blank (brushed aluminum)"	52NL02	52NA02	—	—
"Blank (red)"	52NL02R	52NA02R	52ND02R	52NE02R
"Blank (Black)"	52NL02B	52NA02B	52ND02B	52NE02B
Inscribed legend plates with large brushed aluminum background				
Close	52NL18	52NA18	—	—
Down	52NL10	52NA10	—	—
Emerg Stop	52NL16	52NA16	—	—
Emerg Stop (red)	52NL16R	52NA16R	—	—
Fast-Slow	52NL33	52NA33	—	—
Forward	52NL05	52NA05	—	—
For-Off-Rev	52NL38	52NA38	—	—
For-Rev	52NL31	52NA31	—	—
Hand-Off-Auto	52NL37	52NA37	—	—
High	52NL07	52NA07	—	—
High-Low	52NL30	52NA30	—	—
High-Off-Low	52NL44	52NA44	—	—
In	52NL21	52NA21	—	—
Jog	52NL13	52NA13	—	—
Jog-Forward	52NL24	52NA24	—	—
Jog-Reverse	52NL25	52NA25	—	—
Low	52NL08	52NA08	—	—
Lower	52NL20	52NA20	—	—
Man-Auto	52NL35	52NA35	—	—
Off	52NL12	52NA12	—	—
Off-On	52NL26	52NA26	—	—
On	52NL11	52NA11	—	—
On-Off-Auto	52NL40	52NA40	—	—
Open	52NL17	52NA17	—	—
Open-Close	52NL34	52NA34	—	—
Open-Off-Close	52NL41	52NA41	—	—
Out	52NL22	52NA22	—	—
Pull to Start Push to Stop	52NL47	52NA47	—	—
Raise	52NL19	52NA19	—	—
Raise-Lower	52NL36	52NA36	—	—
Reset	52NL14	52NA14	—	—
Reverse	52NL06	52NA06	—	—
Run	52NL23	52NA23	—	—
Run-Jog	52NL29	52NA29	—	—
Safe-Run	52NL27	52NA27	—	—
Slow-Off-Fast	52NL39	52NA39	—	—
Start	52NL03	52NA03	—	—
Start-Jog	52NL28	52NA28	—	—
Start-Stop	52NL32	52NA32	—	—
Stop	52NL04	52NA04	—	—
Stop (red)	52NL04R	52NA04R	—	—
Up	52NL09	52NA09	—	—
Up-Down	52NL49	52NA49	—	—
Up-Off-Down	52NL42	52NA42	—	—
Inscription plates with custom engraving				
"Custom engraved (brushed aluminum)"	52NL02E	52NA02E	—	—
"Custom engraved (red)"	52NL02RE	52NA02RE	52ND02RE	52NE02RE
"Custom engraved (Black)"	52NL02BE	52NA02BE	52ND02BE	52NE02BE
Max. number of rows	2	2	2	2
Letter height	5/32"	1/4"	5/32"	1/4"
Characters per row	14	16	14	16

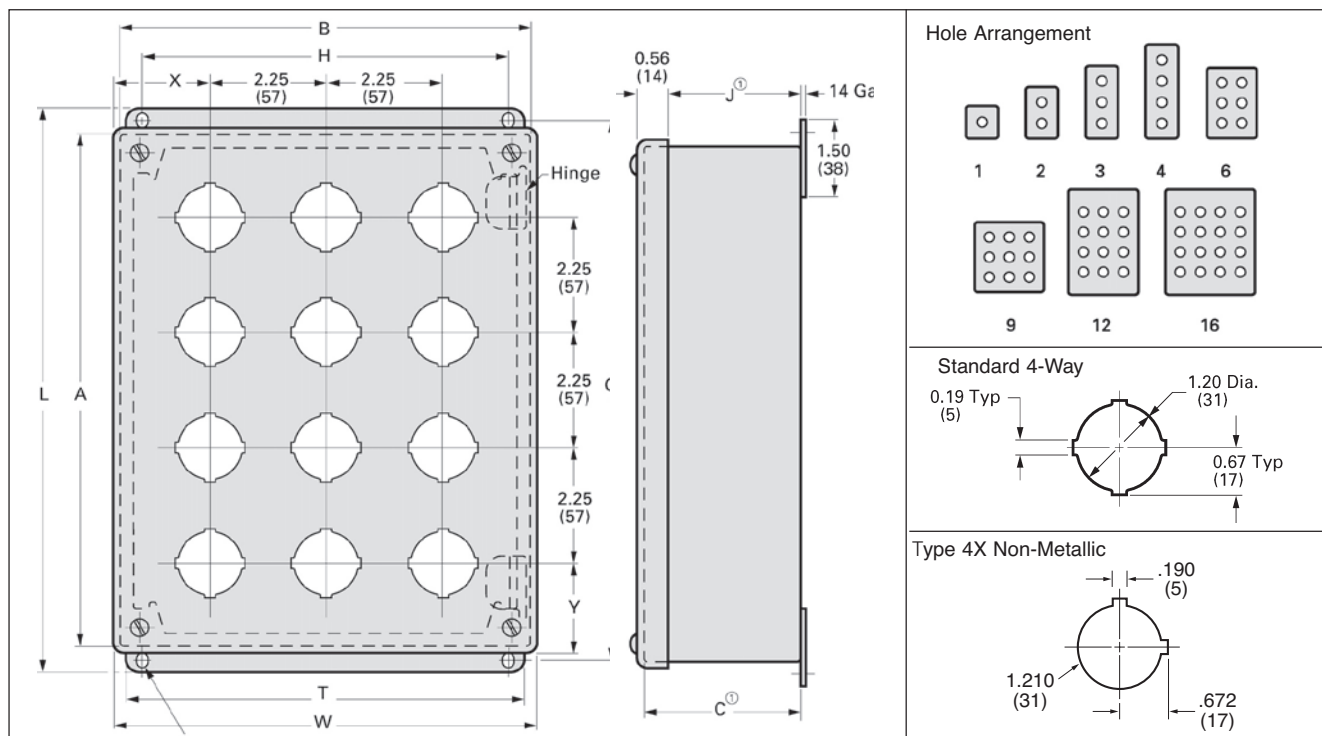
① Automotive requires 2 1/2" mounting centers

② White letters on plastic nameplate.

Pushbutton Units and Indicator Lights

30mm Heavy Duty, Watertight/Oiltight, Class 52

Dimensional drawings



Type 12/13 and 4X Stainless Steel

Units	Enclosure Size			Mounting		Overall					
	A	B	C	G	H	L	W	J	T	X	Y
1	3.50 (89)	3.25 (83)	2.75 (70)	4.00 (102)	2.38 (60)	4.50 (114)	3.47 (88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
2	5.75 (146)	3.25 (83)	2.75 (70)	6.25 (159)	2.38 (60)	6.75 (171)	3.47 (88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
3	8.00 (203)	3.25 (83)	2.75 (70)	8.50 (216)	2.38 (60)	9.00 (229)	3.47 (88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
4	10.25 (260)	3.25 (83)	2.75 (70)	10.75 (273)	2.38 (60)	11.25 (286)	3.47 (88)	2.31 (59)	3.00 (76)	1.73 (44)	1.86 (47)
6	9.50 (241)	6.25 (159)	3.00 (76)	10.00 (254)	5.38 (137)	10.50 (267)	6.47 (164)	2.56 (65)	6.00 (152)	2.11 (54)	2.61 (66)
9	9.50 (241)	8.50 (216)	3.00 (76)	10.00 (254)	7.62 (194)	10.50 (267)	8.72 (221)	2.56 (65)	8.25 (210)	2.11 (54)	2.61 (66)
12	11.75 (298)	8.50 (216)	3.00 (76)	12.25 (311)	7.62 (194)	12.75 (324)	8.72 (221)	2.56 (65)	8.25 (210)	2.11 (54)	2.61 (66)
16 ²⁾	11.75 (298)	10.75 (273)	3.00 (76)	12.25 (311)	9.88 (251)	12.75 (324)	10.97 (279)	2.56 (65) ²⁾	10.50 (267)	2.11 (54)	2.61 (66)

Type 12/13 Extra Deep Enclosures

Units	Enclosure Size			Mounting		Overall					
	A	B	C	G	H	L	W	J	T	X	Y
1	4.00	4.00	4.75	4.50	3.12	5.00	4.22	4.31	3.75	2.11	2.11
2	6.00	4.00	4.75	6.50	3.12	7.00	4.22	4.31	3.75	2.11	1.98
3	8.00	4.00	4.75	8.50	3.12	9.00	4.22	4.31	3.75	2.11	1.86
4	10.00	4.00	4.75	10.50	3.12	11.00	4.22	4.31	3.75	2.11	1.73
6	9.50	6.25	4.75	10.00	5.38	10.50	6.47	4.31	6.00	2.11	2.61
9	9.50	8.50	4.75	10.00	7.62	10.50	8.72	4.31	8.25	2.11	2.61
12	11.75	8.50	4.75	12.25	7.62	12.75	8.72	4.31	8.25	2.11	2.61
16 ²⁾	11.75	10.75	4.75	12.25	9.88	12.75	10.97	4.31	10.50	2.11	2.61

Type 4X Non-Metallic

Units	Enclosure Size			Mounting		Overall	
	A	B	C	G	H	L	W
1	6.00	3.19	3.63	4.88	2.94	6.63	3.81
2	6.00	3.19	3.63	4.88	2.94	6.63	3.81
3	8.26	3.19	3.63	7.13	2.94	8.88	3.81
4	10.51	3.19	3.63	9.37	2.94	11.13	3.81

All dimensions shown in inches and (millimeters). For reference purposes only. Not to be used for design or construction purposes.

- 1) Grounding stud in body of enclosure.
- 2) For stainless steel add 1.75 (45) to depth.

Standards	UL Listed File # E22655	CSA Certified File # LR6535
Utilization	Category NEMA	A600/P600
Degree of Protection	52B, 52P-, 52S-, 52M- Operators	NEMA: 1, 3, 3R, 4, 4X, 12 and 13 IEC 529; IP10, IP11, IP14, IP52, IP54, IP56 and IP66

Rated Operational Current

NEMA A600 – 10 Continuous Amps			NEMA P600 – Rating Codes for DC Control	
Voltage AC	Make Amps	Break Amps	Circuit Application	
120V	60	6	Thermal Continuous Test Current Amps	5.0
240V	30	3	Maximum Make or Break; Current / Amps	
480V	15	1.5	125V	1.10
600V	12	1.2	250V	0.55
Total VA	7200	720	301-600V	0.20
			Maximum Make or Break	
			Volt amperes at 300V or Less	138

Contact Blocks	52BAK, -BAJ®, -BAH, -BAU, -BJK® 52BAR	600VAC Maximum, Heavy Duty 200VAC .25 Amp, 10 Watt Maximum 200VDC .50 Amp, 10 Watt Maximum
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® Positively driven contacts. Contact blocks are suitable for applications down to 5V/1MA low voltage applications as found in PLCs. 52BAR are Class 1; Division 2 Compliant

Pilot Light	Full Voltage LED Module Transformer Type	52PL4/52PL5 or 52BL4/52BL5	-B (6-8V), -C (12V), -D (24V), -E (120V), -F (240V) -L (24V), -M (120V), -N (240V) -G (120V), -H (240V), -J (480V), -K (600V)	240V AC/DC Max. 240V AC Max. 600V AC Max., 50/60 Hz
Push-to-Test	Full Voltage LED Module Transformer Type	52PT6 or 52BT6	-B (6-8V), -C (12V), -D (24V), -E (120V), -F (240V) -L (24V), -M (120V), -N (240V) -G (120V), -H (240V), -J (480V), -K (600V)	240V AC/DC Max. 240V AC Max. 600VAC Max., 50/60 Hz
Illuminated Push-Pull	Full Voltage LED Module Transformer	52PP2(3,7) or 52BP2(3,7)	-B (6-8V), -C (12V), -D (24V), -E (120V), -F (240V) -L (24V), -M (120V), -N (240V) -G (120V), -H (240V), -J (480V), -K (600V)	240V AC/DC Max. 240V AC Max. 600VAC Max., 50/60 Hz
Twist-to-Release	Full Voltage LED Module Transformer	52BR8 or 52PR8	-B (6-8V), -C (12V), -D (24V), -E (120V), -F (240V) -L (24V), -M (120V), -N (240V) -G (120V), -H (240V), -J (480V), -K (600V)	240V AC/DC Max. 240V AC Max. 600VAC Max., 50/60 Hz
Illuminated Selector Switch	Full Voltage Transformer	52SA7(A,B,C) or 52SX7(A,B,C)	-B (6-8V), -C (12V), -D (24V), -E (120V), -F (240V) -G (120V), -H (240V), -J (480V), -K (600V)	240V AC/DC Max. 600V AC Max., 50/60 Hz

Dielectric Strength	2200V for one minute
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Mechanical Design Life Cycles

Vibration	Frequency 5 - 60Hz.; Disp. .030 inches, sweep 5 minutes for a duration of 30 minutes on each axis. Not to exceed 5.5 G's for maximum of 1 minute.		
Pushbuttons	Momentary, Non-illuminated Momentary, Illuminated	5,000,000 Operating Cycles 300,000 Operating Cycles	
Push-Pull	Maintained Momentary	300,000 Operating Cycles 2,000,000 Operating Cycles	
Twist-to-Release		300,000 Operating Cycles	
Selector Switches	Non-illuminated Illuminated, Key-operated	2,000,000 Operating Cycles 2,000,000 Operating Cycles	
Contact Operation	Standard Contact Block Logic Reed		
Wire Gauge	#18-12 AWG		
Terminal Screw Torque	2-10 lb-in / 20 lb-in max; 8 lb-in recommended		
Locknut Torque	15 ft. lbs. max		
Temperature Range	Operating Storage	31F to +158F (-35C to +70C) 40F to +185F (-40C to +85C)	

All parts are designed and manufactured of corrosion resistant material or are plated or painted as corrosion protection. All contact block contacts are gold flashed as a standard offering. Internal return spring mechanisms of operators and contact blocks of stainless steel. RoHS Compliant.

Declaration of Conformity — The products listed below, to which this declaration relates, are in conformity with the following standards, following the provisions of the Low Voltage Directive (LVD) (73/23/EEC), and the Electromagnetic Compatibility Directive (89/336/EEC.)

Products: Contact Blocks: Cat Nos. 52BAE, 52BAH, 52BAJ, 52BAK, 52BAR, 52BAU and 52BJK, with suffixes. Pilot Lights: Cat Nos 52P, with suffixes. Operators: Cat Nos 52S or 52P, with suffixes.

Applicable Standards: EN 60947-5-1 Low-Voltage Switchgear and controlgear. Enclosed devices meet the requirements of environmental ratings of IP10, IP11, IP14, IP52, IP54, and IP56. Open devices, when mounted as instructed, in environmental type IP10, IP11, IP14, IP52, IP54 or IP56 enclosures, maintain the environmental requirements for those enclosure types. Cat. No. 52BP, 52BR, 52PP, and 52PR, 2 Position, Twist-To-Release and 2 Position, Push Pull Maintained operators provided with red operating heads and 52BJK contact blocks meet the requirements of EN 60947-5-5 for Electrical Emergency Stop Device With Mechanical Latching Function (e-stop).

Pushbutton Units and Indicator Lights

Notes