

A02 series

Keylock & selector switches

Distinctive features and specifications

A028_AX1607US



- ☐ Panel Sealed to IP65
- ☐ Single pole to four pole
- ☐ Custom engraving & overmould key
- ☐ Captive screw & push on tab terminals
- ☐ 12A 250VAC

ELECTRICAL SPECIFICATIONS

- **Current/Voltage Rating** : 25mA 5VAC Min, 12A 250VAC, 16A 250VAC max
12A 12VDC max
- **Initial Contact Resistance** : 10mΩ max at 1A 4VDC
- **Insulation Resistance** : 50MΩ min
- **Dielectric Strength** : 2KV between open contacts, 4KV live to accessible
- **Electrical Life** : 50,000 cycles min
- **Contact Gap** : Double break 2 x 1,5mm (0.059)
- **Insulation** : Class 2

MECHANICAL SPECIFICATIONS

- **Mechanical Life (operator)** : Momentary, 1 million cycles, maintained 100,000 cycles
- **Lamp** : Midget grove T1 ¾ filament, neon or LED
- **Terminals** : M3 captive screw and push on tab terminal

GENERAL SPECIFICATIONS

- **Operating Temperature** : -20°C to +85°C
- **Sealing** : Panel sealed to IP65, rear of panel IP40

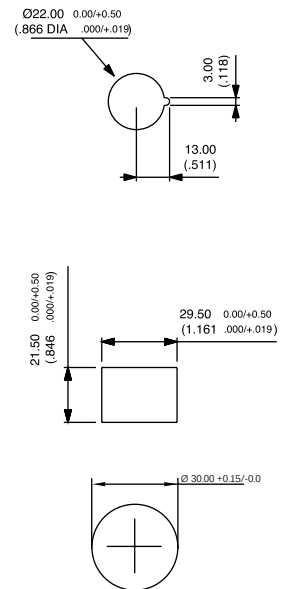
AGENCY APPROVALS



MATERIALS

- **Key** : Nickel plated steel
- **Key Barrel** : Chrome plated alloy
- **Optional Metal Bezel** : Nickel plated brass
- **Operator** : PBT
- **Nut** : ABS
- **Camtrack Momentary** : PPE
- **Camtrack Maintained** : PPSU
- **Switch Block 1 & 2 Pole** : PBT
- **Switch Block 3 & 4 Pole** : PEI
- **Contacts** : Gold plated silver

PANEL CUT OUT



Dimensions : first dimensions are in mm while inches are shown in brackets.
Refer to the following pages for further information.



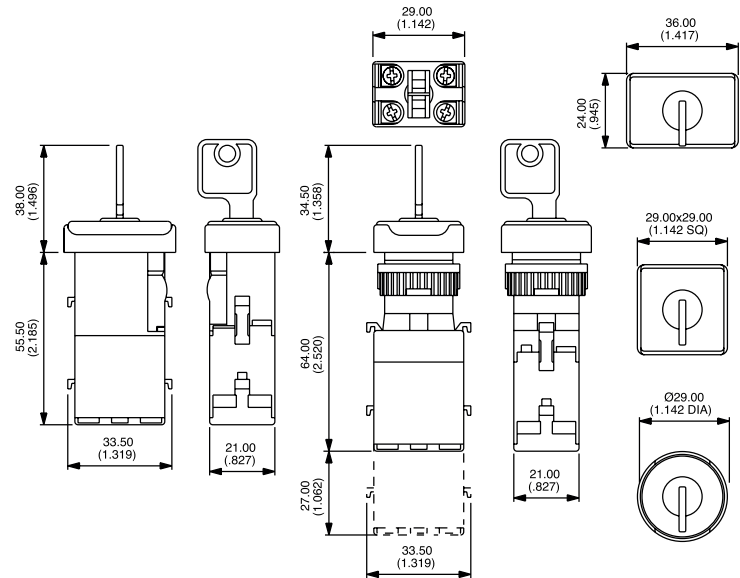
Mounting accessories : standard hardware 1 nut and 1 sealing washer.

A02 series

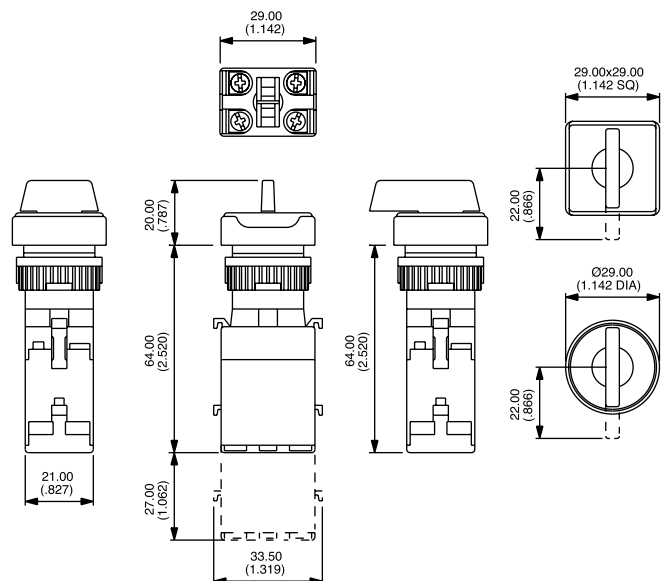
Keylock & selector switches

Panel cut-out Ø22mm (0.866) or 29.5 (1.161) x 21.5(0.846)mm

Keylock



Selector



A02 series

Keylock & selector switches

Overview

Keylock

Operator			+	Switch block	
Bezel	Description	Part No.	Key removable in positions	Contacts	Part No
	2 pos. maintained	A028101	A-C	1 N.O.	A02501
	2 pos. momentary	A028102	A	1 N.C.	A02502
	3 pos. maintained	A028105	A-B-C	2 N.O.	A02503
	3 pos. momentary	A028106	A	2 N.C.	A02504
	3 pos. mainL, momR	A028107	A	1 N.O./1 N.C.	A02505
	3 pos. momL, mainR	A028108	A-B		
	2 pos. maintained	A028201	A-C		
	2 pos. momentary	A028202	A		
	3 pos. maintained	A028205	A-B-C		
	3 pos. momentary	A028206	A		
	3 pos. mainL, momR	A028207	A-B		
	3 pos. momL, mainR	A028208	A-C		
	2 pos. maintained	A028301	A-C	1 N.O.	A02506
	2 pos. momentary	A028302	A	1 N.C.	A02507
	3 pos. maintained	A028305	A-B-C	2 N.O.	A02508
	3 pos. momentary	A028306	A	2 N.C.	A02509
	3 pos. mainL, momR	A028307	A-B	1 N.O./1 N.C.	A02510
	3 pos. momL, mainR	A028308	A-C		

To specify flush mounting (30mmØ) option:
add 'FM' to the end of the **part** number:
Example: A028301FM (round operator only)

Bezel:  rectangular  square  round. 'pos' - position, 'mainL' - maintained left 'momR' - momentary right, etc

Key Rotation – 2 position switches

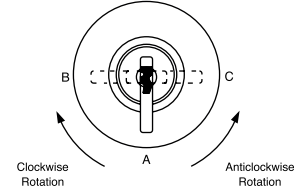
The model numbers shown are for switches with anticlockwise lever rotation.

For clockwise rotation, replace:

01	with	20
02	with	19

at the end of the model number

- 2 standard keys are supplied
- 20 key barrel types available from stock
- Non-removable key positions: contact APEM components



Selector

Operator			+	Switch block	
Bezel	Description	Short lever	Long lever	Contacts	Part No
	2 pos. maintained	A029201	A029101	1 N.O.	A02501
	2 pos. momentary	A029202	A029102	1 N.C.	A02502
	3 pos. maintained	A029203	A029103	2 N.O.	A02503
	3 pos. momentary	A029204	A029104	2 N.C.	A02504
	3 pos. mainL, momR	A029205	A029105	1 N.O./1 N.C.	A02505
	3 pos. momL, mainR	A029206	A029106		
	2 pos. maintained	A029401	A029301		
	2 pos. momentary	A029402	A029302		
	3 pos. maintained	A029403	A029303		
	3 pos. momentary	A029404	A029304		
	3 pos. mainL, momR	A029405	A029305		
	3 pos. momL, mainR	A029406	A029306		

To specify flush mounting (30mmØ) option:
add 'FM' to the end of the **part** number:
Example: A029401FM (round operators only)

Bezel:  square  round

Second switch block

Contacts	Part No
1 N.O.	A02506
1 N.C.	A02507
2 N.O.	A02508
2 N.C.	A02509
1 N.O./1 N.C.	A02510

To achieve 3 or 4 pole switching, add second switch block from above table.

Lever Rotation – 2 position switches

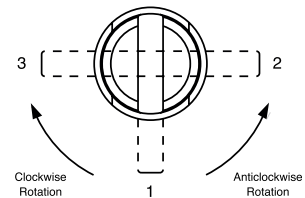
The model numbers shown are for switches with anticlockwise lever rotation.

For clockwise rotation, replace:

01	with	07
02	with	08

at the end of the model number

Optional engraving on lever end add "WL" to the end of the part number.



Unsealed switches & indicators (IP40) suffix 01 to the end of the part number.
Screen engraving insertable legends, & bi-color LED's please contact APEM
For 6.35mm push on tab terminals suffix the switch block part number with SP

A02 series

Keylock & selector switches

Installation & tools

Installation guide

SWITCH BLOCK ASSEMBLY

The switch block snaps onto the adaptor block, to remove, lever out the latches using a small screwdriver taking care not to overbend, pull off the block from the adaptor block.

PANEL MOUNTING ASSEMBLY

- Drill/punch hole shaped as shown on page one.
- Assemble front operator through hole and
 - a) Round & square types, tighten nut to a maximum torque of 0.8Nm using tool no. 30-0001. Snap on the adaptor block fit fixing nut and tighten to a maximum
 - b) Rectangular types, tighten the two panel fixing screws in the front to a maximum torque of 6cNm
- Wire chosen switch block as required and snap onto back of operator with optional end cap
- Fit bulb if required using tool No. 30-0002.
- Snap screen onto reflector assembly with legend in between if required and snap onto front operator, take care to line up the locating slot with the polarising dot and not to damage the internal seal
- To place/remove the bulb use the bulb extractor 30-0002.

Tools

Nut fixing key

30-0001

Bulb remover

30-0002

Accessories

Switch block end cap, terminal guard

14-0005