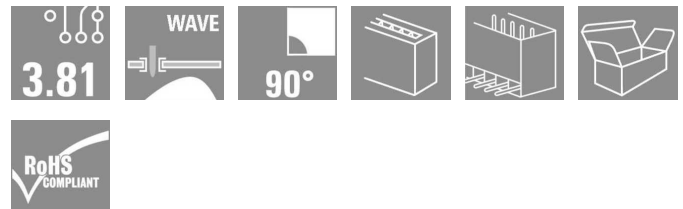


**OMNIMATE Signal - series BC/SC 3.81
SC 3.81/07/90G 3.2SN BK BX**

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The SC pin header has a parallel (recumbent) plugging direction in relation to the PCB. It is available in closed (G) and screw flange (F) versions.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors. They support a flood-light display and offer space for labelling and coding.

General ordering data

Type	SC 3.81/07/90G 3.2SN BK BX
Order No.	1942350000
Version	PCB plug-in connector, male header, closed side, Solder connection, 3.81 mm, No. of poles: 7, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box
GTIN (EAN)	4032248655243
Qty.	50 pc(s).
Product data	IEC: 320 V / 17.5 A UL: 300 V / 10 A
Packaging	Box

OMNIMATE Signal - series BC/SC 3.81

SC 3.81/07/90G 3.2SN BK BX

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Technical data

Dimensions and weights

Net weight 1.94 g

System parameters

Product family	OMNIMATE Signal - series BC/SC 3.81	Mounting onto the PCB	Solder connection
Outgoing elbow	90°	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.15 inch	No. of poles	7
Solder pin length (l)	3.2 mm	Solder pin length tolerance	0 / -0,02 mm
Solder pin dimensions	d = 1.0 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 mm
Plugging cycles	25	Can be coded	Yes
Number of solder pins per pole	1	Solder eyelet hole diameter (D)	1.2 mm
Solder eyelet hole diameter tolerance (D)+ 0,1 mm		L1 in mm	22.86 mm
L1 in inches	0.9 inch	Insulation resistance	≥ 10 ⁸ Ω
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Volume resistance	6.00 mΩ		

Material data

Insulating material	PA GF	Moisture Level (MSL)	3
Colour	Black	Insulating material group	II
UL 94 flammability rating	V-0	CTI	≥ 550
Contact material	Cu-Leg	Contact surface	tinned
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %		

Rating data acc. to IEC 60664-1 / IEC 61984

Rated current, min. no. of poles (Ta = 20°C)	17.5 A	Rated current, max. no. of poles (Ta = 20°C)	17.5 A
Rated current, min. no. of poles (Ta = 40°C)	17.5 A	Rated current, max. no. of poles (Ta = 40°C)	16.3 A
Rated voltage for surge voltage class / pollution degree III/3	160 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated voltage for surge voltage class / pollution degree II/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 76 A		

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B)	300 V	Rated current (use group B)	8 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (use group B)

300 V

Rated voltage (use group D)

300 V

Rated current (use group B)

10 A

Rated current (use group D)

10 A

Reference to approval values

Specifications are
 maximum values, details -
 see approval certificate.

Classifications

ETIM 4.0

EC002637

ETIM 5.0

EC002637

ETIM 6.0

EC002637

UNSPSC

30-21-18-11

eClass 5.1

27-26-11-02

eClass 6.2

27-26-07-04

eClass 7.1

27-44-04-02

eClass 8.1

27-44-04-02

eClass 9.0

27-44-04-02

Notes

Notes

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

IPC conformity

The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

Approvals

Approvals



ROHS

Conform

Downloads

EDA Layout Library (Mentor Graphics
 Expedition, Mentor Graphics Pads,
 Altium Designer)

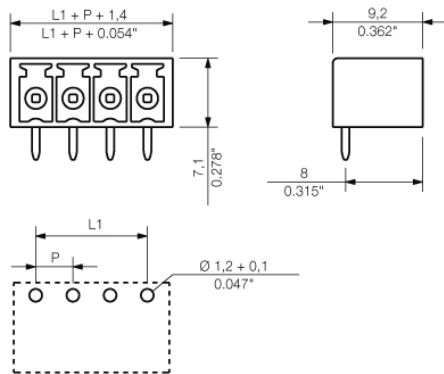
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[3-D model](#)

OMNIMATE Signal - series BC/SC 3.81 SC 3.81/07/90G 3.2SN BK BX

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Drawings



OMNIMATE Signal - series BC/SC 3.81

SC 3.81/07/90G 3.2SN BK BX

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Mating connector (conditionally pluggable)

BCZ 3.81/180F



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of customary connectors and offer space for labelling and coding.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BCZ 3.81/07/180F SN GN BX	1941260000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248655663	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
BCZ 3.81/07/180F SN BK BX	1837020000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248345380	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
BCZ 3.81/07/180F SN OR BX	1941060000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248655786	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

OMNIMATE Signal - series BC/SC 3.81

SC 3.81/07/90G 3.2SN BK BX

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Mating connector (conditionally pluggable)

BCZ 3.81/90F



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of customary connectors and offer space for labelling and coding.

General ordering data

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2014-05-20	BCZ 3.81/07/90F SN GN BX	1940130000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656691	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16
BCZ 3.81/07/90F SN BK BX	1845690000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248359967	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
BCZ 3.81/07/90F SN OR BX	1940030000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 90°, Clamping yoke connection, Clamping	4032248656790	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

OMNIMATE Signal - series BC/SC 3.81

SC 3.81/07/90G 3.2SN BK BX

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Mating connector (conditionally pluggable)

range, rated connection,
 max.: 1.5 mm², Box

BCZ 3.81/270F



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of customary connectors and offer space for labelling and coding.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BCZ 3.81/07/270F SN OR BX	1940510000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656325	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
BCZ 3.81/07/270F SN BK BX	1940670000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656165	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
2014-05-20 TOB 3.81/07/270F SN GN BX	1940610000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656226	50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 10 A / AWG	

OMNIMATE Signal - series BC/SC 3.81

SC 3.81/07/90G 3.2SN BK BX

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Mating connector (conditionally pluggable)

28
-
AWG
16

BCZ 3.81/180LR



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of customary connectors and offer space for labelling and coding.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BCZ 3.81/07/180LR SN OR BX	1941450000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4032248698370 50 pc(s).		IEC: 320 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
2014-05-20T08:03:01.0270000	BCZ 3.81/07/180LR SN GN BX	1941640000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4032248698561 50 pc(s).	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 16	

**OMNIMATE Signal - series BC/SC 3.81
SC 3.81/07/90G 3.2SN BK BX**

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Mating connector (conditionally pluggable)

2014-05-20	TOB	BCD30+0270180LR SN BK BX	1941830000	PCB plug-in connector, female	4032248698752 50 pc(s).	IEC:
				plug, 3.81 mm,		320
				No. of poles: 7,		V /
				180°, Clamping		17.5
				yoke connection,		A /
				Clamping range,		0.2
				rated connection,		-
				max.: 1.5 mm²,		1.5
				Box		mm²
						UL:
						300
						V /
						10
						A /
						AWG
						28
						-
						AWG
						16

OMNIMATE Signal - series BC/SC 3.81 SC 3.81/07/90G 3.2SN BK BX

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Accessories

LED Light guides



Effective: the link between LED and front panel.

Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.

The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction). Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.

The advantages compared to conventional solutions:

- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- Easy to maintain correct clearance and creepage distance
- Can be partitioned for smaller pole numbers

The result: simplified manufacturing process, reduced costs and simplified design

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
SC 3.81 FLA 2.3/16	1979740000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 8	4032248752461	50 pc(s).	
SC 3.81 FLA 1.5/14.25	1979730000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 8	4032248752454	50 pc(s).	
SC 3.81 FLA 2.3/14.25	1979750000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 8	4032248752478	50 pc(s).	
SC 3.81 FLA 1.5/16	1979720000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 8	4032248752447	50 pc(s).	

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Accessories

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.

Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
SC-SMT 3.81 KO GY BX	1968900000	PCB plug-in connector, Accessories, Coding element, Grey, No. of poles: 6	4032248772865	100 pc(s).	

Recommended wave soldering profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.

Addresses worldwide

Let's connect.

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DZ Algeria

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