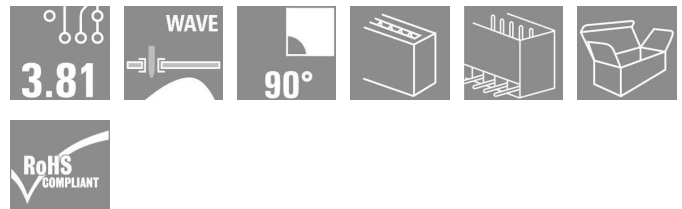
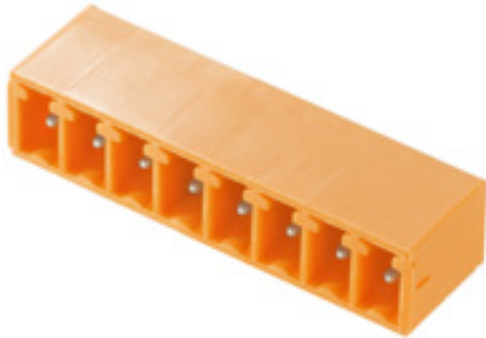


**OMNIMATE Signal - series BC/SC 3.81
SC 3.81/12/90G 3.2SN GN BX**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
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 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



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.

- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Type	SC 3.81/12/90G 3.2SN GN BX
Order No.	1793310000
Version	PCB plug-in connector, male header, closed side, Solder connection, 3.81 mm, No. of poles: 12, 90°, Solder pin length (l): 3.2 mm, tinned, Pale green, Box
GTIN (EAN)	4032248227785
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 3.81/12/90G 3.2SN GN BX**

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Technical data
Dimensions and weights

Net weight 3.02 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	12
Solder pin length (l)	3.2 mm	Pin dimensions	d = 1.0 mm, Octagonal
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	41.91 mm	L1 in inches	1.65 inch
Insulation resistance	10 ⁶ Ω	Touch-safe protection acc. to DIN VDE 0470	IP 20
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		

Material data

Insulating material	PA GF	Colour	Pale green
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	Max. relative humidity during storage	80 %

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	17.5 A	Rated current, max. no. of poles (Tu=20°C)	17.5 A
Rated current, number of poles (Tu=40°C), min	17.5 A	Rated current, number of poles (Tu=40°C), max.	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		

CSA rating data

Institute (CSA)		Rated voltage (Use group B)	300 V
Rated current (use group B)	8 A		

UL 1059 rating data

Rated voltage (use group B)	300 V	Rated current (use group B)	10 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A

Data sheet

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Technical data

Classifications

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 5.1	27-26-07-04	eClass 6.2	27-26-07-04
eClass 7.1	27-44-04-02		

Notes

- Notes
- Additional colours on request
 - P on drawing = pitch
 - 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.

Approvals

Approvals



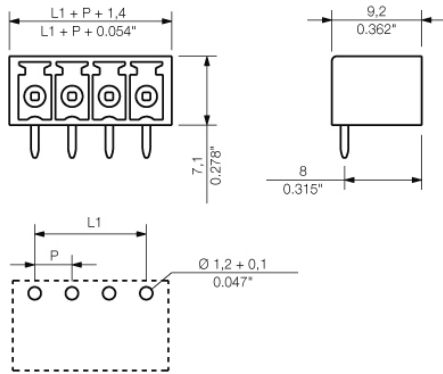
ROHS Conform

Data sheet

**OMNIMATE Signal - series BC/SC 3.81
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Drawings



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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.

- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BCZ 3.81/12/180F SN BK BX	1793020000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248227105	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 3.81/12/180F SN OR BX	1941110000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248655731	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 3.81/12/180F SN GN BX	1793110000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248227198	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

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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:

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- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BCZ 3.81/12/90F SN BK BX	1798830000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248243518	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 3.81/12/90F SN GN BX	1798920000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248243600	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 3.81/12/90F SN OR BX	1940080000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656745	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
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Mating connector (conditionally pluggable)
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.

- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BCZ 3.81/12/180LR SN GN BX	1941690000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248698615	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 3.81/12/180LR SN BK BX	1941880000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248698875	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 3.81/12/180LR SN OR BX	1941500000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248698424	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

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Mating connector (conditionally pluggable)
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:

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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.

- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BCZ 3.81/12/270F SN GN BX	1799240000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248244133	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 3.81/12/270F SN OR BX	1940560000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248656271	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 3.81/12/270F SN BK BX	1799150000	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 12, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box	4032248244041	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

