

Pitch 3.81 mm (0.150 inch)
SC-SMT 3.81/02/90G 3.2SN BK BX

Weidmüller Interface GmbH & Co. KG
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High-temperature-resistant pin header (SC-SMT 90G) in 3.81-mm pitch (0.15 inch)

- Plugging direction parallel to PCB (recumbent)
- Closed (G)
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

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

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

General ordering data

Order No.	1862460000
Part designation	SC-SMT 3.81/02/90G 3.2SN BK BX
Version	PCB plug-in connector, male header, 3.81 mm, No. of poles: 2, 90°, Solder pin length: 3.2 mm, tinned, black, Reflow solder connection, Box
GTIN (EAN)	4032248427611
Qty.	50 pc(s).
Packaging	Box

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Technical data

System parameters

Fitted to PCB	Reflow solder connection	Outgoing elbow	90°
Pitch in mm	3.81 mm	Pitch in inch	0.15 inch
No. of poles	2	Solder pin length	3.2 mm
Can be coded	Yes	No. of rows	1
Number of solder pins per pole	1	Diameter of solder eyelet	1.3 mm
Tolerance of the diameter of the solder eyelet	+ 0,1 mm	L1 in mm	3.81 mm
L1 in inch	0.15 inch	Insulation resistance	10 ³ Ω
Electric shock protection to DIN VDE 0470	IP 20	Electric shock protection to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	LCP GF	Colour	black
Insulating material group	IIIa	Flammability class UL 94	V-0
CTI	≥ 175	Contact material	Copper alloy
Contact surface	tinned	Highest continuous operating temperature, min.	-25 °C
Highest continuous operating temperature, max.	120 °C	Max. relative humidity during storage	85 %

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)	13.9 A
Rated current, no. of poles (Tu=40°C), min.	17 A	Rated current, no. of poles (Tu=40°C), max.	12.4 A
Rated voltage at overvoltage category/pollution degree III/3	160 V	Rated impulse withstand voltage for overvoltage class/pollution severity III/3	2.5 kV
Rated voltage for overvoltage class/pollution severity III/2	160 V	Rated impulse withstand voltage for overvoltage class/pollution severity III/2	2.5 kV
Rated voltage for overvoltage class/pollution severity II/2	320 V	Rated impulse withstand voltage for overvoltage class/pollution severity II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 76 A		

CSA 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

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

Approvals

Approvals institutes CSA; CURUS; ROHS

Classifications

ETIM 3.0	EC001284	eClass 5.1	27-26-07-04
eClass 6.0	27-26-07-04		

Datasheet

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Technical data**Notes**

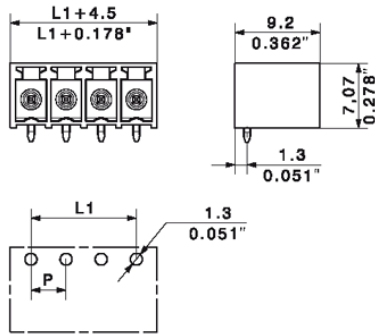
Notes

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = 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.

Datasheet

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Drawings

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Counterpart

BCZ 3.81/180



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

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1792860000	BCZ 3.81/02/180 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248226948	50 pc(s).	Box
1792770000	BCZ 3.81/02/180 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248226757	50 pc(s).	Box
1940730000	BCZ 3.81/02/180 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656103	50 pc(s).	Box

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Counterpart

BCZ 3.81/270



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

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1940190000	BCZ 3.81/02/270 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656646	50 pc(s).	Box
1798940000	BCZ 3.81/02/270 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243723	50 pc(s).	Box
1799010000	BCZ 3.81/02/270 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243808	50 pc(s).	Box

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Counterpart

BCZ 3.81/90



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

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1939820000	BCZ 3.81/02/90 SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248653966	50 pc(s).	Box
1798500000	BCZ 3.81/02/90 SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243006	50 pc(s).	Box
1798680000	BCZ 3.81/02/90 SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243273	50 pc(s).	Box

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Counterpart

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
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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

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1798850000	BCZ 3.81/02/90F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243532	50 pc(s).	Box
1798780000	BCZ 3.81/02/90F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243464	50 pc(s).	Box
1939980000	BCZ 3.81/02/90F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 90°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656844	50 pc(s).	Box

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Counterpart

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
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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

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1941780000	BCZ 3.81/02/180LR SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248698707	50 pc(s).	Box
1941400000	BCZ 3.81/02/180LR SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248698325	50 pc(s).	Box
1941590000	BCZ 3.81/02/180LR SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248698516	50 pc(s).	Box

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Counterpart

BCZ 3.81/180F



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- 270° wire perpendicular and below plugging direction

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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

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1941010000	BCZ 3.81/02/180F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248655830	50 pc(s).	Box
1793040000	BCZ 3.81/02/180F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248227129	50 pc(s).	Box
1792950000	BCZ 3.81/02/180F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248227037	50 pc(s).	Box

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Counterpart

BCZ 3.81/270F



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- 17.5 A (IEC) / 10 A (UL)

General ordering data

Order No.	Part designation	Version	GTIN (EAN)	Qty.	Packaging
1940460000	BCZ 3.81/02/270F SN OR BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248656370	50 pc(s).	Box
1799100000	BCZ 3.81/02/270F SN BK BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248243990	50 pc(s).	Box
1799170000	BCZ 3.81/02/270F SN GN BX	PCB plug-in connector, female plug, 3.81 mm, No. of poles: 2, 270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Box	4032248244065	50 pc(s).	Box