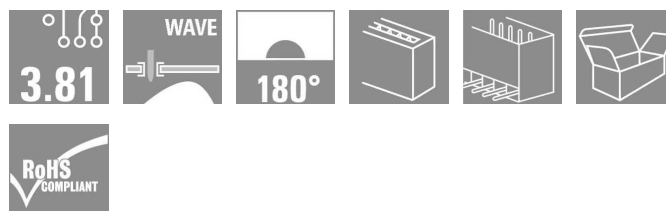


OMNIMATE Signal - series BC/SC 3.81 SC 3.81/03/180G 3.2SN GN BX

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The SC pin header has a perpendicular (standing) 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 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 3.81/03/180G 3.2SN GN BX |
| Order No. | 1793620000 |
| Version | PCB plug-in connector, male header, closed side, Solder connection, 3.81 mm, No. of poles: 3, 180°, Solder pin length (l): 3.2 mm, tinned, Pale green, Box |
| GTIN (EAN) | 4032248230747 |
| Qty. | 50 pc(s). |
| Product data | IEC: 320 V / 17.5 A UL: 300 V / 10 A |
| Packaging | Box |

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Technical data

Dimensions and weights

| | |
|------------|--------|
| Net weight | 0.98 g |
|------------|--------|

System parameters

| | | | |
|--|-------------------------------------|--|-----------------------|
| Product family | OMNIMATE Signal - series BC/SC 3.81 | Mounting onto the PCB | Solder connection |
| Outgoing elbow | 180° | Pitch in mm (P) | 3.81 mm |
| Pitch in inches (P) | 0.15 inch | No. of poles | 3 |
| 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 | 7.62 mm | L1 in inches | 0.3 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) | 17.1 A |
| Rated current, number of poles (Tu=40°C), min | 17.5 A | Rated current, number of poles (Tu=40°C), max. | 17.1 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

| | | | |
|-----------------------------|-------|-----------------------------|-----|
| 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 |

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 | | |

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Technical data

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



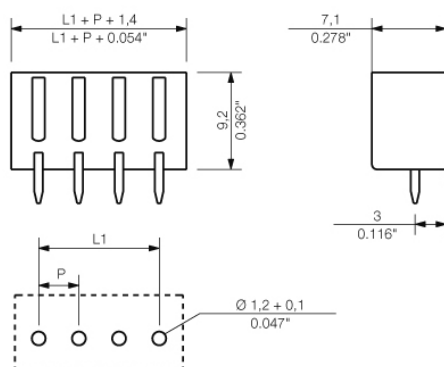
ROHS

Conform

OMNIMATE Signal - series BC/SC 3.81 SC 3.81/03/180G 3.2SN GN BX

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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 3.81/03/180F SN OR BX | 1941020000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248655823 | 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 3.81/03/180F SN GN BX | 1793050000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248227136 | 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 3.81/03/180F SN BK BX | 1792960000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248227044 | 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:

- 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 3.81/03/90F SN GN BX | 1798860000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248243549 | 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 3.81/03/90F SN BK BX | 1798140000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248241330 | 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 3.81/03/90F SN OR BX | 1939990000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248656837 | 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 3.81/03/180G 3.2SN GN BX

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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 3.81/03/180LR SN BK BX | 1941790000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248698714 | 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 3.81/03/180LR SN GN BX | 1941600000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248698523 | 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 3.81/03/180LR SN OR BX | 1941410000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248698332 | 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 3.81/03/180G 3.2SN GN BX

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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:

- 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 3.81/03/270F SN OR BX | 1940470000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248656363 | 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 3.81/03/270F SN BK BX | 1798180000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248241378 | 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 3.81/03/270F SN GN BX | 1799180000 | PCB plug-in connector, female plug, 3.81 mm, No. of poles: 3, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm ² , Box | 4032248244072 | 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 |

