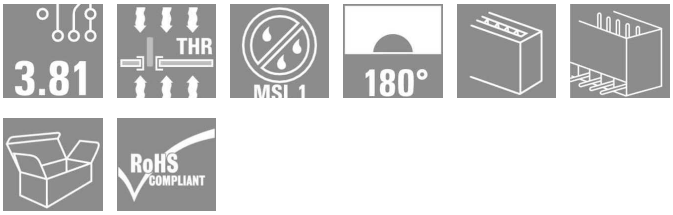
# OMNIMATE Signal - series BC/SC 3.81
# SC-SMT 3.81/03/180G 3.2SN BK BX

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
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Fon: +49 5231 14-0
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High-temperature-resistant pin header (SC-SMT 180G) in 3.81-mm pitch (0.15 inch)
- Plugging direction is perpendicular to PCB (standing)
- 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

| | |
|---|---|
| Type | SC-SMT 3.81/03/180G 3.2SN BK BX |
| Order No. | 1862940000 |
| Version | PCB plug-in connector, male header, closed side, Reflow solder connection, 3.81 mm, No. of poles: 3, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box |
| GTIN (EAN) | 4032248428120 |
| Qty. | 50 pc(s). |
| Product data | IEC: 320 V / 17.5 A<br>UL: 300 V / 10 A |
| Packaging | Box |

Erstellungs-Datum January 16, 2014 8:39:15 AM CET

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## Technische Daten

### Dimensions and weights

| | |
|---|---|
| Net weight | 0.68 g |

### System parameters

| | | | |
|---|---|---|---|
| Product family | OMNIMATE Signal - series BC/SC 3.81 | Mounting onto the PCB | Reflow 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) | 1.3 mm | Solder eyelet hole diameter tolerance (D) | + 0,1 mm |
| L1 in mm | 7.62 mm | L1 in inches | 0.3 inch |
| Insulation resistance | $10^3$ 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 | LCP GF | Colour | Black |
| Insulating material group | IIIa | UL 94 flammability rating | V-0 |
| CTI | ≥ 175 | 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 | 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, number of poles (Tu=40°C), min | 17 A | Rated current, number of poles (Tu=40°C), max. | 12.4 A |
| Rated voltage for surge voltage class pollution degree III/3 | 160 V | Rated impulse voltage for surge voltage classcontamination degree III/3 | 2.5 kV |
| Rated voltage for surge voltage class pollution degree III/2 | 160 V | Rated impulse voltage for surge voltage classpollution degree III/2 | 2.5 kV |
| Rated voltage for surge voltage class pollution degree II/2 | 320 V | Rated impulse voltage for surge voltage classpollution 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) | 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 |

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## Technische Daten

### 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 | • Rated current related to rated cross-section & min. No. of poles.<br>• 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.<br>• P on drawing = pitch |

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |

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## Zeichnungen

