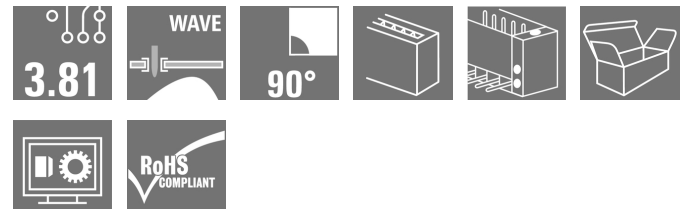
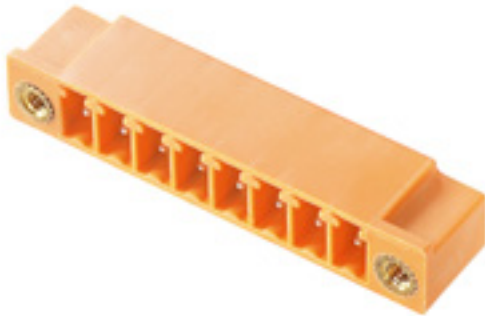


OMNIMATE Signal - series BC/SC 3.81 SC 3.81/11/90F 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
Fon: +49 5231 14-0
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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.

General ordering data

| | |
|--------------|---|
| Type | SC 3.81/11/90F 3.2SN OR BX |
| Order No. | 1942540000 |
| Version | PCB plug-in connector, male header, Flange, THT solder connection, 3.81 mm, No. of poles: 11, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box |
| GTIN (EAN) | 4032248655052 |
| 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 2.981 g

System specifications

| Product family | OMNIMATE Signal - series BC/SC 3.81 | Type of connection | Board connection |
|--|-------------------------------------|--|------------------------|
| Mounting onto the PCB | THT solder connection | Pitch in mm (P) | 3.81 mm |
| Pitch in inches (P) | 0.15 inch | Outgoing elbow | 90° |
| No. of poles | 11 | Number of solder pins per pole | 1 |
| Solder pin length (l) | 3.2 mm | Solder pin length tolerance | 0 / -0,02 mm |
| Tolerance of solder pin position | ± 0.15 mm | Solder pin dimensions | d = 1.0 mm, Octagonal |
| Solder pin dimensions = d tolerance | 0 / -0,03 mm | Solder eyelet hole diameter (D) | 1.2 mm |
| Solder eyelet hole diameter tolerance (D) | + 0,1 mm | L1 in mm | 38.1 mm |
| L1 in inches | 1.5 inch | Number of rows | 1 |
| Pin series quantity | 1 | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20 | Volume resistance | 6.00 mΩ |
| Can be coded | Yes | Plugging cycles | 25 |
| Packaging | Box | | |

Material data

| Insulating material | PA GF | Colour | Orange |
|---------------------------------------|----------|---------------------------------------|---------------------|
| Colour chart (similar) | RAL 2000 | Insulating material group | II |
| CTI | ≥ 550 | Insulation resistance | ≥ 10 ⁸ Ω |
| UL 94 flammability rating | V-0 | Contact material | Copper alloy |
| Contact surface | tinned | Storage temperature, min. | -25 °C |
| Storage temperature, max. | 55 °C | Max. relative humidity during storage | 80 % |
| Operating temperature, min. | -50 °C | Operating temperature, max. | 120 °C |
| Temperature range, installation, min. | -25 °C | Temperature range, installation, max. | 120 °C |

Rated data acc. to IEC

| | | | |
|---|------------------------|---|------------------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | 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, min. no. of poles (Tu=40°C) | 17.5 A |
| Rated current, max. no. of poles (Tu=40°C) | 16.3 A | Rated voltage for surge voltage class / pollution degree II/2 | 320 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 160 V | Rated voltage for surge voltage class / pollution degree III/3 | 160 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 2.5 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 2.5 kV | Short-time withstand current resistance | 3 x 1s with 76 A |


Data sheet

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Technical data

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. | | |

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 | eClass 9.1 | 27-44-04-02 |

Notes

| | |
|----------------|---|
| Notes | <ul style="list-style-type: none"> • 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 |

Data sheet**OMNIMATE Signal - series BC/SC 3.81
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Technical data**Downloads**

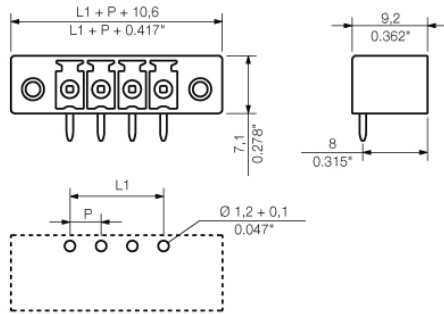
| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of the Manufacturer |
| Brochure/Catalogue | FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE CAT 2 PORTFOLIOGUIDE EN FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL BASE STATION EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN |
| Engineering Data | EPLAN_WSCAD |

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Drawings

Dimensional drawing



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.