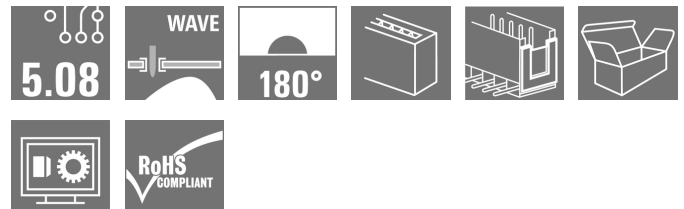


**OMNIMATE Signal - series BL/SL 5.08
SL 5.08/11/180B 3.2SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

| | |
|---------------------|---|
| Delivery status | This article will no longer be available in the future. |
| Available until | 2019-12-31 |
| Type | SL 5.08/11/180B 3.2SN OR BX |
| Order No. | 1520460000 |
| Version | PCB plug-in connector, male header, Dovetails for fixing blocks, THT solder connection, 5.08 mm, No. of poles: 11, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box |
| GTIN (EAN) | 4008190023560 |
| Qty. | 50 pc(s). |
| Product data | IEC: 400 V / 18 A UL: 300 V / 15 A |
| Packaging | Box |
| Alternative product | 1147610000 |

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Technical data**Dimensions and weights**

Net weight 4.06 g

System specifications

| Product family | | Mounting onto the PCB | |
|--|---------------------------------|--|--------------|
| OMNIMATE Signal - series BL/SL 5.08 | | THT solder connection | |
| Pitch in mm (P) | 5.08 mm | Pitch in inches (P) | 0.2 inch |
| Outgoing elbow | 180° | No. of poles | 11 |
| Number of solder pins per pole | 1 | Solder pin length (l) | 3.2 mm |
| Solder pin length tolerance | +0.1 / -0.3 mm | Tolerance of solder pin position | ± 0.15 mm |
| Solder pin dimensions | d = 1.2 mm, Octagonal | Solder pin dimensions = d tolerance | 0 / -0,03 mm |
| Solder eyelet hole diameter (D) | 1.3 mm | Solder eyelet hole diameter tolerance (D) | + 0,1 mm |
| L1 in mm | 50.8 mm | L1 in inches | 2 inch |
| Number of rows | 1 | Pin series quantity | 1 |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch, plugged | Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged |
| Volume resistance | 4.50 mΩ | Can be coded | Yes |
| Plugging cycles | 25 | Packaging | Box |

Material data

| | | | |
|---------------------------------------|----------------------------|---------------------------------------|----------------------------|
| Insulating material | PBT | Colour | Orange |
| Colour chart (similar) | RAL 2000 | Insulating material group | Illa |
| CTI | ≥ 200 | Insulation resistance | ≥ 10 ⁸ Ω |
| UL 94 flammability rating | V-0 | Contact base material | CuSn |
| Contact material | CuSn | Contact surface | tinned |
| Layer structure of solder connection | 1-3 μm Ni / 2-4 μm Sn matt | Layer structure of plug contact | 1-3 μm Ni / 2-4 μm Sn matt |
| Storage temperature, min. | -25 °C | Storage temperature, max. | 55 °C |
| Max. relative humidity during storage | 80 % | Operating temperature, min. | -50 °C |
| Operating temperature, max. | 100 °C | Temperature range, installation, min. | -25 °C |
| Temperature range, installation, max. | 100 °C | | |

Rated data acc. to IEC

| | | | |
|---|------------------------|---|-------------------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Tu=20°C) | 18 A |
| Rated current, max. no. of poles (Tu=20°C) | 14.5 A | Rated current, min. no. of poles (Tu=40°C) | 15 A |
| Rated current, max. no. of poles (Tu=40°C) | 12 A | Rated voltage for surge voltage class / pollution degree II/2 | 400 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 320 V | Rated voltage for surge voltage class / pollution degree III/3 | 250 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 4 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV | Short-time withstand current resistance | 3 x 1s with 120 A |

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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 voltage (use group D) | 300 V |
| Rated current (use group B) | 15 A | Rated current (use group D) | 10 A |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Rated data acc. to UL 1059

| | | | |
|------------------------------|--|-----------------------------|--------|
| Institute (UR) | | Certificate No. (UR) | E60693 |
| Rated voltage (use group B) | 300 V | Rated voltage (use group D) | 300 V |
| Rated current (use group B) | 15 A | Rated current (use group D) | 10 A |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC001284 | ETIM 4.0 | EC002637 |
| ETIM 5.0 | EC002637 | ETIM 6.0 | EC002637 |
| 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 |
| 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 • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • 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. |
|-------|--|

| | |
|----------------|--|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. |
|----------------|--|

Approvals

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

**OMNIMATE Signal - series BL/SL 5.08
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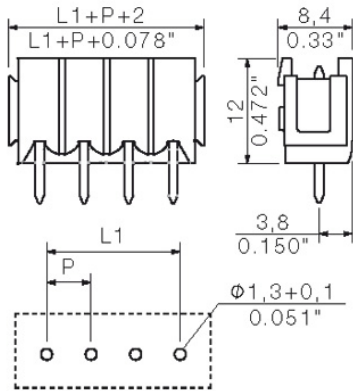
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Technical data**Downloads**

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of the Manufacturer |
| Brochure/Catalogue | FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FLIndustr.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 | 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.