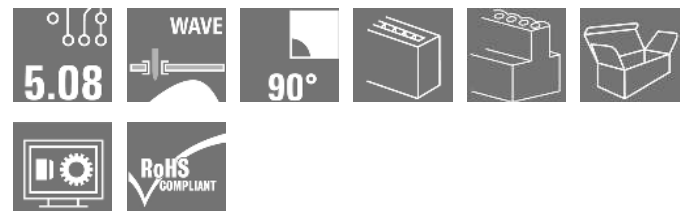


**OMNIMATE Signal - series BL/SL 5.08
 BLL 5.08/08/90 3.2 SN OR BX**

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



Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

General ordering data

| | |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type | BLL 5.08/08/90 3.2 SN OR BX |
| Order No. | 1623000000 |
| Version | PCB plug-in connector, female header, closed side, THT solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box |
| GTIN (EAN) | 4008190194055 |
| Qty. | 42 pc(s). |
| Product data | IEC: 400 V / 23 A UL: 300 V / 15 A |
| Packaging | Box |

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Technical data**Dimensions and weights**

Net weight 7.8 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 | 90° | No. of poles | 8 |
| Number of solder pins per pole | 2 | Solder pin length (l) | 3.2 mm |
| Solder pin length tolerance | +0.1 / -0.3 mm | Tolerance of solder pin position | ± 0.1 mm |
| Solder pin dimensions | 0.4 x 1.00 mm | Solder eyelet hole diameter (D) | 1.3 mm |
| Solder eyelet hole diameter tolerance (D) | + 0,1 mm | L1 in mm | 35.56 mm |
| L1 in inches | 1.4 inch | Number of rows | 1 |
| Pin series quantity | 1 | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Volume resistance | 4.50 mΩ | Can be coded | Yes |
| Plugging cycles | 25 | Withdrawal force per pole | 2 N |
| Packaging | Box | | |

Material data

| | | | |
|---------------------------------------|--------------------------|---------------------------------------|--------------------------|
| Insulating material | PBT GF | Colour | Orange |
| Colour chart (similar) | RAL 2000 | Insulating material group | IIIa |
| CTI | ≥ 200 | Insulation resistance | ≥ 10 ⁸ Ω |
| UL 94 flammability rating | V-0 | Contact material | Copper alloy |
| Contact surface | tinned | Layer structure of solder connection | 4-6 μm Sn hot-dip tinned |
| Layer structure of plug contact | 4-6 μm Sn hot-dip 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. | 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) | 23 A |
| Rated current, max. no. of poles (Tu=20°C) | 16 A | Rated current, min. no. of poles (Tu=40°C) | 20 A |
| Rated current, max. no. of poles (Tu=40°C) | 14 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 |


Data sheet

**OMNIMATE Signal - series BL/SL 5.08
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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 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 BL/SL 5.08
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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 | WSCAD |
| Engineering Data | BLL.zip |

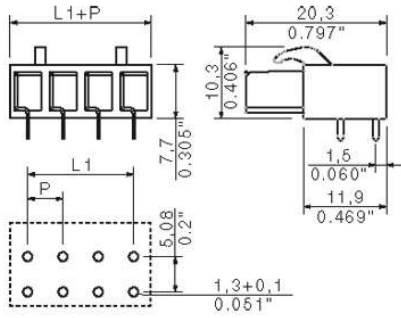
Data sheet

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Drawings

Dimensional drawing



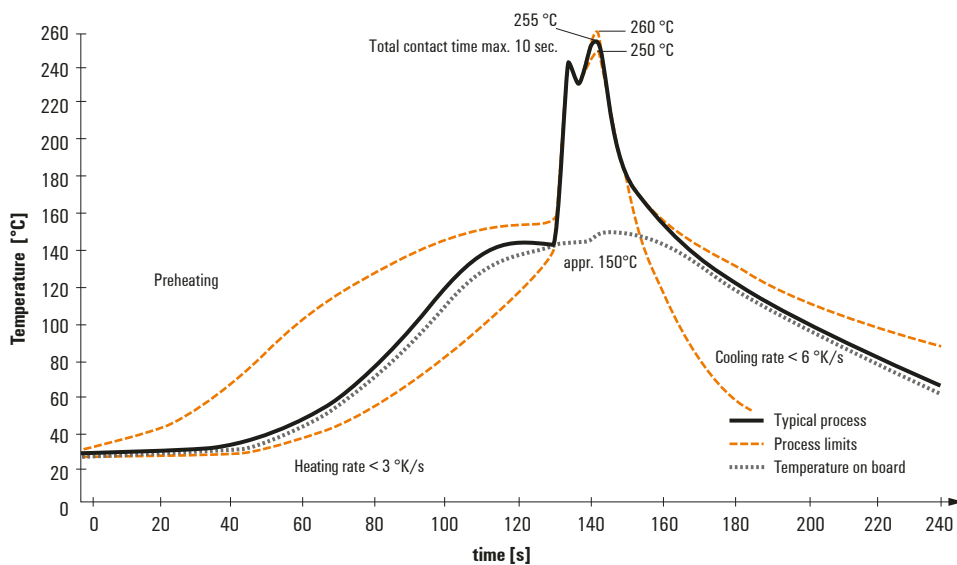
Recommended wave soldering profiles

Weidmüller Interface GmbH & Co. KG
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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.