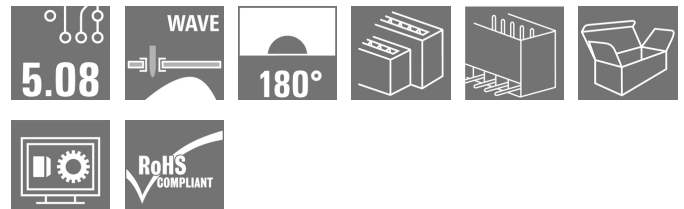


**OMNIMATE Signal - series BL/SL 5.08  
SLD 5.08/14/180G 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Product image**

Similar to illustration

2-tier male header with parallel pin arrangement. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

**General ordering data**

|              |                                                                                                                                                                |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type         | SLD 5.08/14/180G 3.2SN OR BX                                                                                                                                   |
| Order No.    | <a href="#">1602440000</a>                                                                                                                                     |
| Version      | PCB plug-in connector, male header, closed side, THT solder connection, 5.08 mm, Number of poles: 14, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box |
| GTIN (EAN)   | 4008190166830                                                                                                                                                  |
| Qty.         | 20 pc(s).                                                                                                                                                      |
| Product data | IEC: 400 V / 11 A<br>UL: 300 V / 10 A                                                                                                                          |
| Packaging    | Box                                                                                                                                                            |

Creation date 09 September 2020 07:26:52 CEST

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## Technical data

### Dimensions and weights

|                          |            |                 |            |
|--------------------------|------------|-----------------|------------|
| Width                    | 37.52 mm   | Width (inches)  | 1.477 inch |
| Height                   | 25.2 mm    | Height (inches) | 0.992 inch |
| Height of lowest version | 22 mm      | Depth           | 28.5 mm    |
| Depth (inches)           | 1.122 inch | Net weight      | 13.6 g     |

### System specifications

|                                                   |                                     |                                              |                              |
|---------------------------------------------------|-------------------------------------|----------------------------------------------|------------------------------|
| Product family                                    | OMNIMATE Signal - series BL/SL 5.08 | Type of connection                           | Board connection             |
| Mounting onto the PCB                             | THT solder connection               | Pitch in mm (P)                              | 5.08 mm                      |
| Pitch in inches (P)                               | 0.2 inch                            | Outgoing elbow                               | 180°                         |
| Number of poles                                   | 14                                  | 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                  | ± 0.1 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                                     | 30.48 mm                     |
| L1 in inches                                      | 1.2 inch                            | Number of rows                               | 2                            |
| Pin series quantity                               | 2                                   | Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch |
| Volume resistance                                 | ≤ 5mΩ                               | Can be coded                                 | Yes                          |
| Plugging cycles                                   | 25                                  |                                              |                              |

### Material data

|                                       |                                |                                       |                                |
|---------------------------------------|--------------------------------|---------------------------------------|--------------------------------|
| Insulating material                   | PBT                            | Colour                                | orange                         |
| Colour chart (similar)                | RAL 2000                       | Insulating material group             | IIIa                           |
| Comparative Tracking Index (CTI)      | ≥ 200                          | Insulation strength                   | ≥ 10 <sup>8</sup> Ω            |
| UL 94 flammability rating             | V-0                            | GWFI                                  | 960 °C                         |
| 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.             | -40 °C                         | Storage temperature, max.             | 70 °C                          |
| 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. number of poles (Tu=20°C)                         | 11 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 8.5 A                  | Rated current, min. number of poles (Tu=40°C)                         | 9.5 A             |
| Rated current, max. number of poles (Tu=40°C)                             | 7 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                               | 1 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 / CSA) | 300 V                                                                             | Rated voltage (Use group D / CSA) | 300 V          |
| Rated current (Use group B / CSA) | 10 A                                                                              | Rated current (Use group D / CSA) | 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 / UL 1059) | 300 V                                                                             | Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group B / UL 1059) | 10 A                                                                              | Rated current (Use group D / UL 1059) | 10 A   |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.            |                                       |        |

### Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 45 mm  |
| VPE width | 120 mm | VPE height | 125 mm |

### Classifications

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC002637    | ETIM 7.0   | EC002637    |
| eClass 9.0  | 27-44-04-02 | eClass 9.1 | 27-44-04-02 |
| eClass 10.0 | 27-44-04-02 | UNSPSC     | 30-21-18-10 |

### Notes

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes          | <ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Spacing between rows: see hole layout</li> <li>• P on drawing = pitch</li> <li>• 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.</li> <li>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul> |
| 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.                                                                                                                                                                                                                                     |

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**Technical data****Approvals**

Approvals



ROHS

Conform

**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](#)  
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[FL ELEVATOR EN](#)  
[FL POWER SUPPLY EN](#)  
[FL 72H SAMPLE SER EN](#)  
[PO OMNIMATE EN](#)

Engineering Data

[WSCAD](#)

Engineering Data

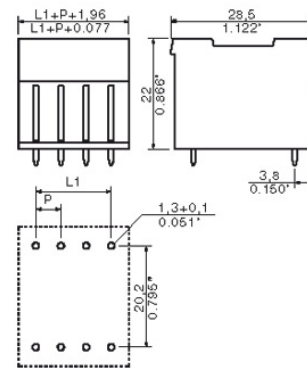
[STEP](#)

## OMNIMATE Signal - series BL/SL 5.08 SLD 5.08/14/180G 3.2SN OR BX

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# Drawings

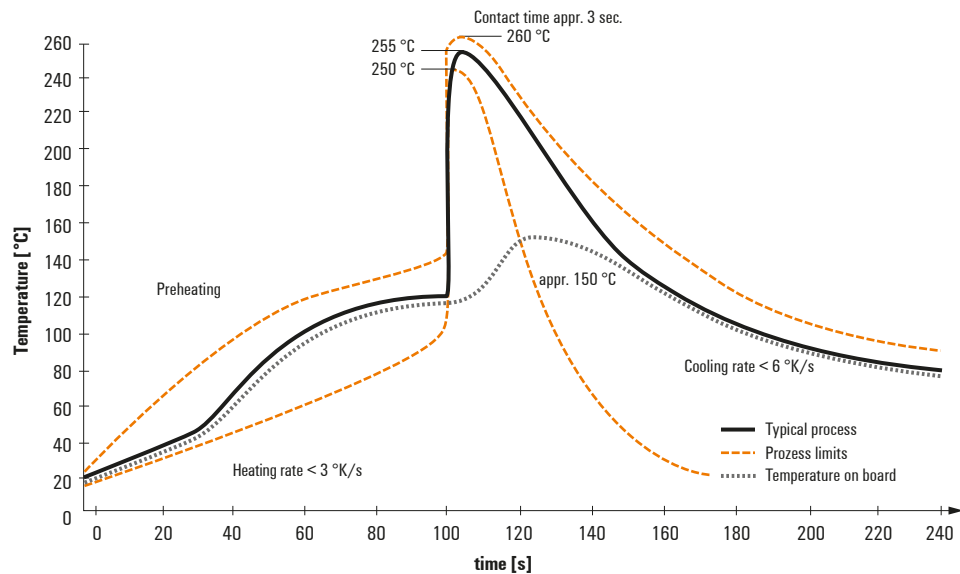
## Dimensional drawing



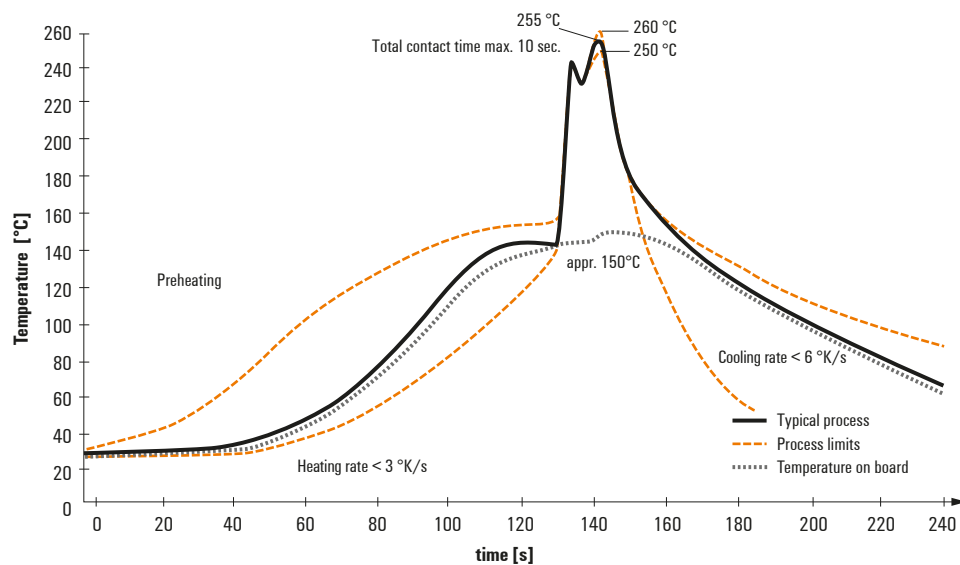
## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
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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.

We reserve the right to make technical changes.