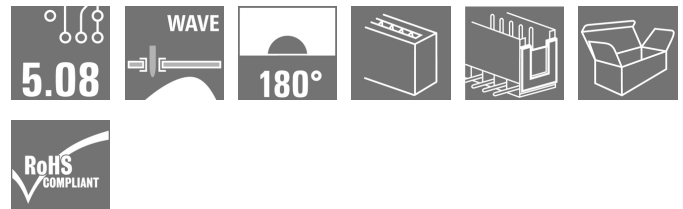


## Data sheet

### OMNIMATE Signal - series BLA/SLA 5.08 SLA 10/180B 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

Dimensionally stable, straight, codable male connector from the Unimate range of plugs with integral aid to prevent wrong connections. Available with open or closed sides. Fixing blocks can be attached to the closed version. The solder pin length of 3.2 mm has been optimised for wave soldering. Supplied in cardboard box.

#### General ordering data

|              |                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type         | SLA 10/180B 3.2SN OR BX                                                                                                                                                        |
| Order No.    | <a href="#">1243360000</a>                                                                                                                                                     |
| Version      | PCB plug-in connector, male header, Dovetails for fixing blocks, THT solder connection, 5.08 mm, Number of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box |
| GTIN (EAN)   | 4008190005832                                                                                                                                                                  |
| Qty.         | 50 pc(s).                                                                                                                                                                      |
| Product data | IEC: 400 V / 17.5 A<br>UL: 300 V / 10 A                                                                                                                                        |
| Packaging    | Box                                                                                                                                                                            |

Creation date 20 April 2020 16:47:43 CEST

## Data sheet

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## Technical data

### Dimensions and weights

|                          |           |                 |            |
|--------------------------|-----------|-----------------|------------|
| Width                    | 52.8 mm   | Width (inches)  | 2.079 inch |
| Height                   | 15.2 mm   | Height (inches) | 0.598 inch |
| Height of lowest version | 12 mm     | Depth           | 9.4 mm     |
| Depth (inches)           | 0.37 inch | Net weight      | 4.14 g     |

### System specifications

|                                                   |                                       |                                              |                              |
|---------------------------------------------------|---------------------------------------|----------------------------------------------|------------------------------|
| Product family                                    | OMNIMATE Signal - series BLA/SLA 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                                   | 10                                    | Number of solder pins per pole               | 1                            |
| Solder pin length (l)                             | 3.2 mm                                | Tolerance of solder pin position             | ± 0.15 mm                    |
| Solder pin dimensions                             | d = 1.2 mm, Octagonal                 | Solder eyelet hole diameter (D)              | 1.3 mm                       |
| Solder eyelet hole diameter tolerance (D)+ 0,1 mm |                                       | L1 in mm                                     | 45.72 mm                     |
| L1 in inches                                      | 1.8 inch                              | Number of rows                               | 1                            |
| Pin series quantity                               | 1                                     | Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch |
| Volume resistance                                 | 5.50 mΩ                               | Can be coded                                 | Yes                          |
| Plugging cycles                                   | 25                                    | Pulling force/pole, max.                     | 2 N                          |

### Material data

|                                       |          |                                       |                     |
|---------------------------------------|----------|---------------------------------------|---------------------|
| Insulating material                   | PBT GF   | 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              |
| Storage temperature, min.             | -25 °C   | Storage temperature, max.             | 50 °C               |
| Max. relative humidity during storage | 70 %     | 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. number of poles (Tu=20°C)                         | 17.5 A            |
| Rated current, max. number of poles (Tu=20°C)                             | 12.5 A                 | Rated current, min. number of poles (Tu=40°C)                         | 16 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 11 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 100 A |

## Data sheet

### OMNIMATE Signal - series BLA/SLA 5.08 SLA 10/180B 3.2SN OR BX

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## Technical data

### Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

12400-158

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 55 mm

VPE width 60 mm

VPE height 155 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

- 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.

**Data sheet****OMNIMATE Signal - series BLA/SLA 5.08  
SLA 10/180B 3.2SN OR BX****Weidmüller Interface GmbH & Co. KG**

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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](#)  
[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

[SLA.zip](#)

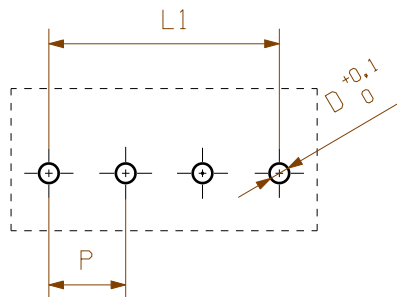
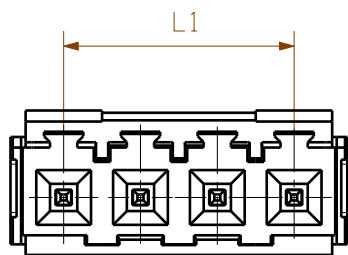
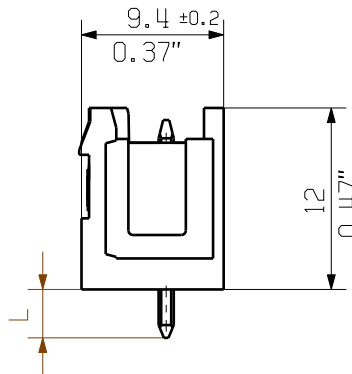
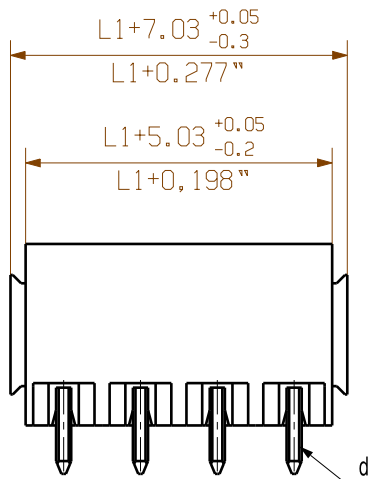
**Data sheet****OMNIMATE Signal - series BLA/SLA 5.08  
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**Drawings****Dimensional drawing**

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# HOLE PATTERN

P = 5.08mm/0.2inch

d = max.1.2mm/0.047inch  
D = 1.3mm/0.51inch

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.  
The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.  
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

SHOWN:SLA 04/180B

General tolerance:  
DIN ISO 2768-mK



101264/4  
19.02.18 HERTEL\_S 00

Modification

**Weidmüller**



Cat.no.: . . .

**3 27739**

**13**

Drawing no.

Issue no.

Sheet 02

of 02 sheets



Drawn

Date

Name

Responsible

Checked

Approved

17.09.2009

HERTEL\_S

27.02.2018

HERTEL\_S

LANG\_T

**SLA ../180...**

STIFTELEISTE  
PIN HEADER

Scale: 2:1

Supersedes: .

Product file: SLA

7123

|    |         |           |
|----|---------|-----------|
| 24 | 116,84  | 4,600     |
| 23 | 111,76  | 4,400     |
| 22 | 106,68  | 4,200     |
| 21 | 101,60  | 4,000     |
| 20 | 96,52   | 3,800     |
| 19 | 91,44   | 3,600     |
| 18 | 86,36   | 3,400     |
| 17 | 81,28   | 3,200     |
| 16 | 76,20   | 3,000     |
| 15 | 71,12   | 2,800     |
| 14 | 66,04   | 2,600     |
| 13 | 60,96   | 2,400     |
| 12 | 55,88   | 2,200     |
| 11 | 50,80   | 2,000     |
| 10 | 45,72   | 1,800     |
| 9  | 40,64   | 1,600     |
| 8  | 35,56   | 1,400     |
| 7  | 30,48   | 1,200     |
| 6  | 25,40   | 1,000     |
| 5  | 20,32   | 0,800     |
| 4  | 15,24   | 0,600     |
| 3  | 10,16   | 0,400     |
| 2  | 5,08    | 0,200     |
| n  | L1 [mm] | L1 [Inch] |

|                            |                       |
|----------------------------|-----------------------|
| 3,2                        | 0,1<br>-0,3           |
| 4,5                        | 0,1<br>-0,3           |
| PINLÄNGE L<br>PIN LENGTH L | TOLERANZ<br>TOLERANCE |

## Wave Solder Profile

### Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

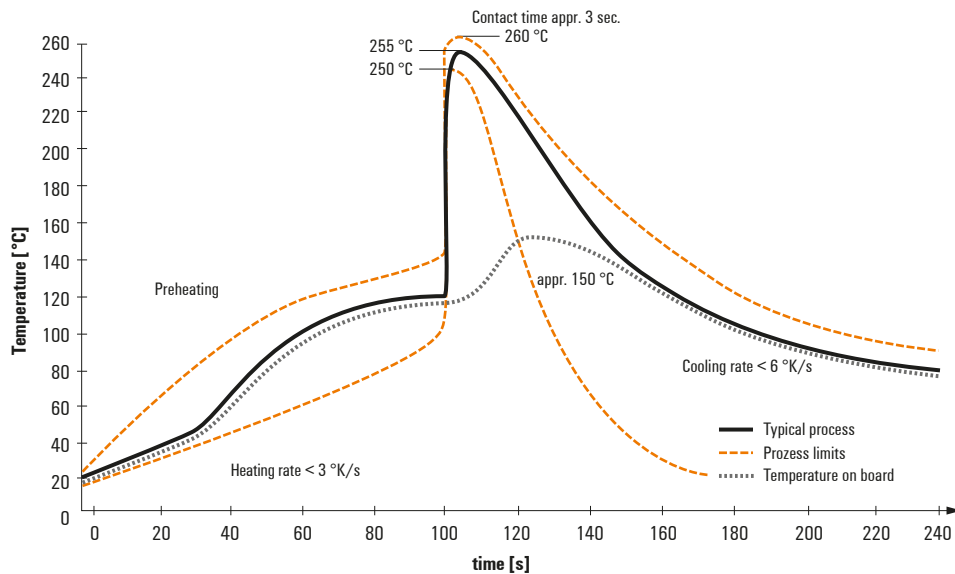
Germany

Fon: +49 5231 14-0

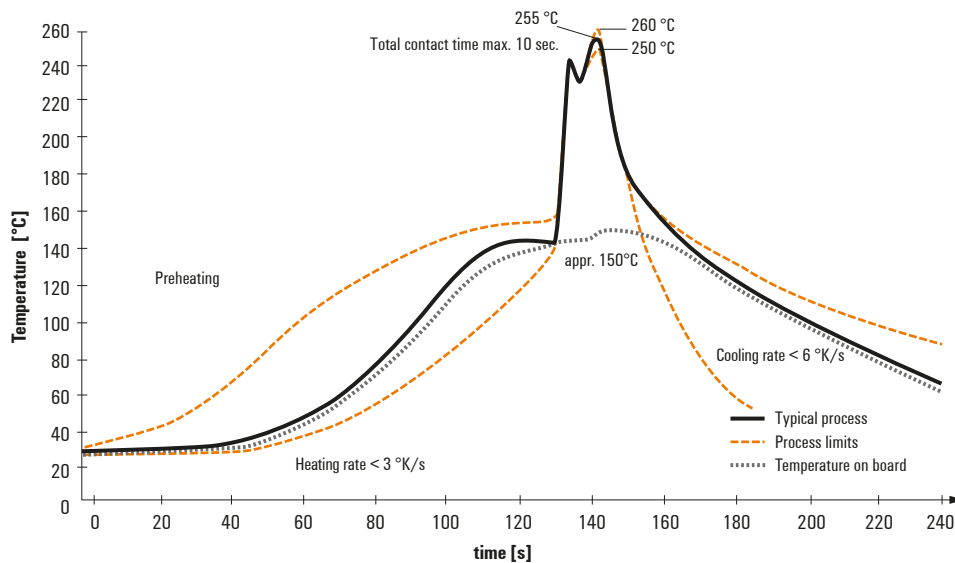
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#### Single Wave:



#### 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.



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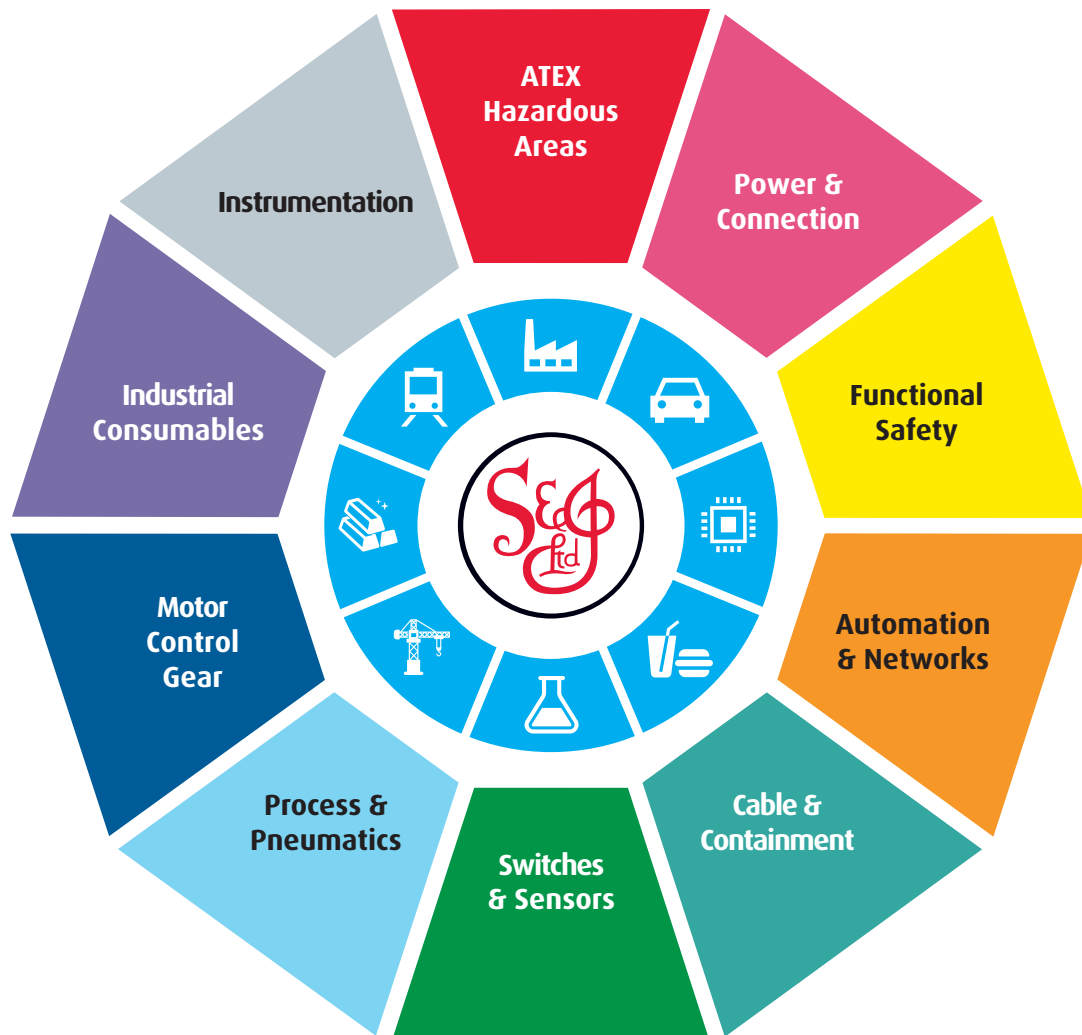
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