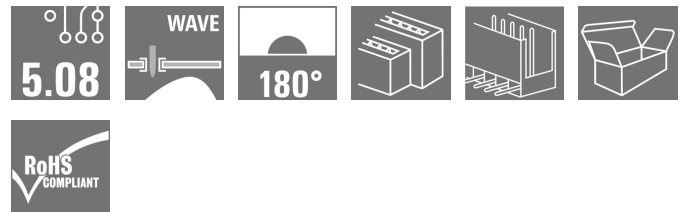


**SLD 5.08V/40/180 3.2SN OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Similar to illustration

Pin headers with solder pin length optimised for wave flow soldering. The male connectors provide space for labelling and can be coded. HC = High Current.

**General ordering data**

|              |                                                                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, male header, open side, THT solder connection, 5.08 mm, Number of poles: 40, 180°, Solder pin length (l): 3.2 mm, tinned, orange, Box |
| Order No.    | <a href="#">1725830000</a>                                                                                                                                   |
| Type         | SLD 5.08V/40/180 3.2SN OR BX                                                                                                                                 |
| GTIN (EAN)   | 4032248062126                                                                                                                                                |
| Qty.         | 10 pc(s).                                                                                                                                                    |
| Product data | IEC: 400 V / 14 A<br>UL: 300 V / 10 A                                                                                                                        |
| Packaging    | Box                                                                                                                                                          |

Creation date March 24, 2021 11:12:26 PM CET

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## Technical data

## Dimensions and weights

|                          |           |                 |            |
|--------------------------|-----------|-----------------|------------|
| Depth                    | 26.2 mm   | Depth (inches)  | 1.031 inch |
| Height                   | 25.4 mm   | Height (inches) | 1 inch     |
| Height of lowest version | 22.2 mm   | Net weight      | 36.3 g     |
| Width                    | 104.14 mm | Width (inches)  | 4.1 inch   |

## 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                 | 40                                  | Number of solder pins per pole            | 1                |
| Solder pin length (l)           | 3.2 mm                              | Solder pin length tolerance               | +0.1 / -0.3 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                        | 96.52 mm                            | L1 in inches                              | 3.8 inch         |
| Number of rows                  | 2                                   | Pin series quantity                       | 2                |
| Volume resistance               | ≤5 mΩ                               | Can be coded                              | Yes              |

## Material data

|                                       |                                |                                       |                                |
|---------------------------------------|--------------------------------|---------------------------------------|--------------------------------|
| Insulating material                   | PBT                            | Colour                                | orange                         |
| Colour chart (similar)                | RAL 2000                       | Insulating material group             | IIIa                           |
| Comparative Tracking Index (CTI)      | ≥ 200                          | UL 94 flammability rating             | V-0                            |
| 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)                         | 14 A  |
| Rated current, min. number 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                   |                                                                       |       |

## 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.              |                                   |                |

## SLD 5.08V/40/180 3.2SN OR BX

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## Technical data

## 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

60 mm

VPE width

130 mm

VPE height

160 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

ECLASS 11.0

27-46-02-01

## Important note

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.

Notes

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- 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.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

## Approvals

Approvals



ROHS

Conform

UL File Number Search

E60693

## Downloads

Approval/Certificate/Document of Conformity

[Declaration of the Manufacturer](#)

Engineering Data

[STEP](#)

## SLD 5.08V/40/180 3.2SN OR BX

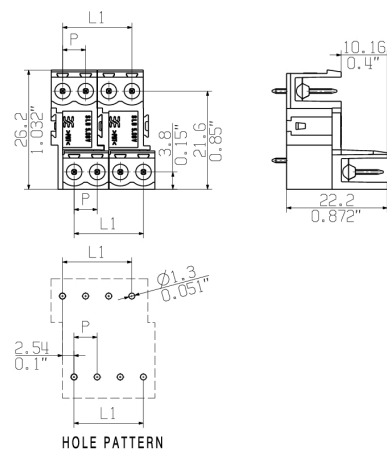
**Weidmüller Interface GmbH & Co. KG**  
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Germany

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# Drawings

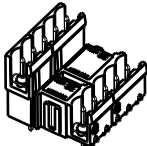
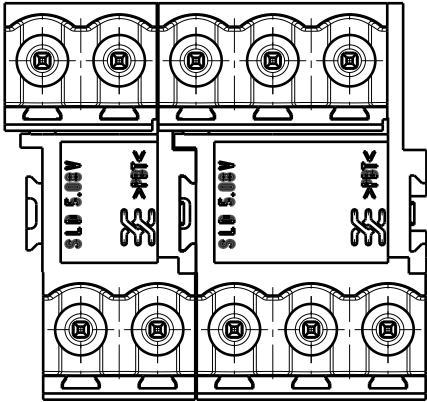
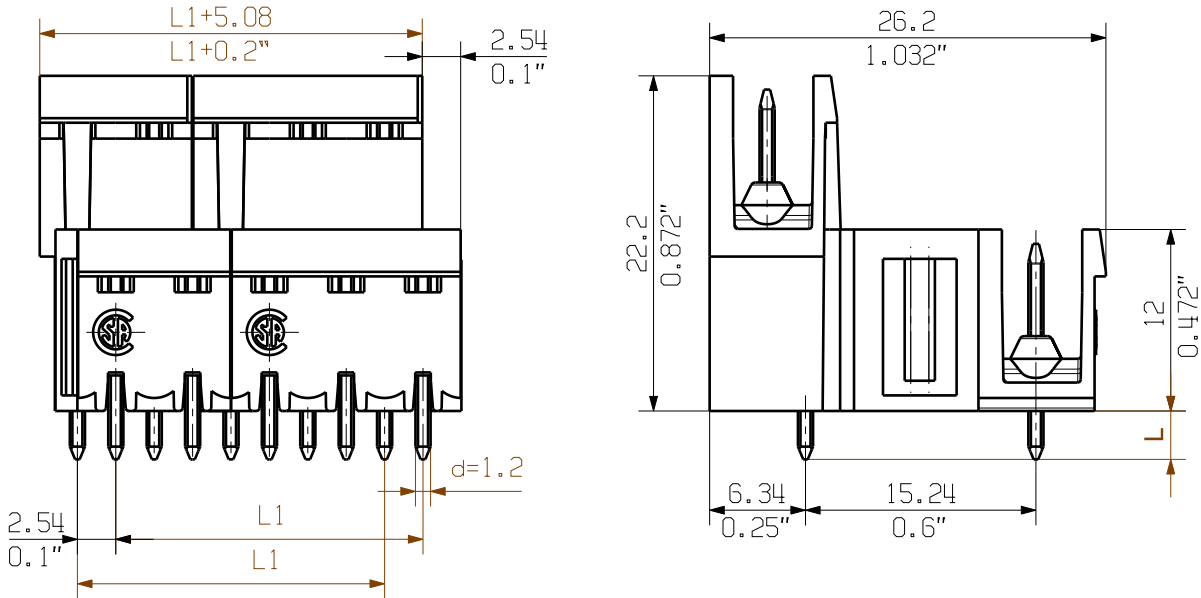
## Dimensional drawing

## Dimensional drawing

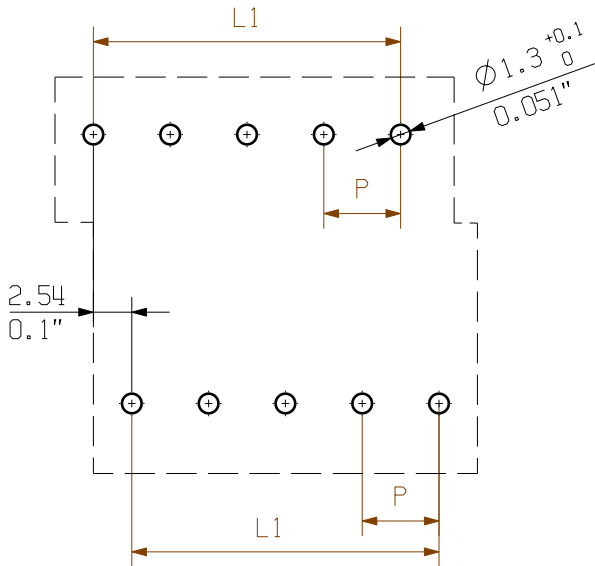


Dimensions without tolerances are no check dimensions

The English version is binding



1/1



P = pitch  
n = no of poles  
shown:SLD 5.08V/10/180

|                              |                       |
|------------------------------|-----------------------|
| 3,2                          | 0,1                   |
|                              | -0,3                  |
| 4,5                          | 0,1                   |
|                              | -0,3                  |
| Stiftlänge L<br>pin length L | Toleranz<br>Tolerance |

|    |         |           |                                   |
|----|---------|-----------|-----------------------------------|
| 48 | 116,84  | 4,600     | +0.40<br>- 0.24                   |
| 46 | 111,76  | 4,400     |                                   |
| 44 | 106,68  | 4,200     |                                   |
| 42 | 101,60  | 4,000     | +0.35<br>- 0.21                   |
| 40 | 96,52   | 3,800     |                                   |
| 38 | 91,44   | 3,600     |                                   |
| 36 | 86,36   | 3,400     | +0.30<br>- 0.18                   |
| 34 | 81,28   | 3,200     |                                   |
| 32 | 76,20   | 3,000     |                                   |
| 30 | 71,12   | 2,800     | +0.25<br>- 0.15                   |
| 28 | 66,04   | 2,600     |                                   |
| 26 | 60,96   | 2,400     |                                   |
| 24 | 55,88   | 2,200     | +0.20<br>- 0.12                   |
| 22 | 50,80   | 2,000     |                                   |
| 20 | 45,72   | 1,800     |                                   |
| 18 | 40,64   | 1,600     | +0.15<br>- 0.09                   |
| 16 | 35,56   | 1,400     |                                   |
| 14 | 30,48   | 1,200     |                                   |
| 12 | 25,40   | 1,000     | +0.10<br>- 0.06                   |
| 10 | 20,32   | 0,800     |                                   |
| 8  | 15,24   | 0,600     |                                   |
| 6  | 10,16   | 0,400     | + 0.05<br>- 0.03                  |
| 4  | 5,08    | 0,200     |                                   |
| n  | L1 [mm] | L1 [Inch] | Toleranz/<br>tolerance<br>L1 [mm] |

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

Weidmueller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

General tolerance:  
DIN ISO 2768-mK



Scale: 2/1

Supersedes: .

88610/5  
24.08.16 HELIS\_MA  
00  
Modification

|             |            |          |
|-------------|------------|----------|
| Drawn       | 18.07.2003 | KNOTH_G  |
| Responsible |            | HERTEL_S |
| Checked     | 01.09.2016 | HELIS_MA |
| Approved    |            | LANG_T   |

**Weidmüller**



Cat.no.: .

**3 26661 08**

Drawing no. Issue no.  
Sheet 01 of 02 sheets

**SLD 5.08V/.../180(B)**  
STIFTLEISTE  
PIN HEADER

Product file: SLD 5.08V

7305

## 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.

We reserve the right to make technical changes.