

**SLD 3.50/32/90F 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

Two-tier pin header for wave soldering in 3.50 mm pitch. The connector is available in open, closed and flange versions. The male connectors provide space for labelling and can be coded. Packed in a cardboard box.

**General ordering data**

|              |                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 32, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box |
| Order No.    | <a href="#">1633950000</a>                                                                                                                               |
| Type         | SLD 3.50/32/90F 3.2SN OR BX                                                                                                                              |
| GTIN (EAN)   | 4008190258405                                                                                                                                            |
| Qty.         | 10 pc(s).                                                                                                                                                |
| Product data | IEC: 200 V / 10.5 A<br>UL: 300 V / 8 A                                                                                                                   |
| Packaging    | Box                                                                                                                                                      |

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## Technical data

## Dimensions and weights

|                          |         |                 |            |
|--------------------------|---------|-----------------|------------|
| Depth                    | 24.7 mm | Depth (inches)  | 0.972 inch |
| Height                   | 26.5 mm | Height (inches) | 1.043 inch |
| Height of lowest version | 23.3 mm | Net weight      | 22.2 g     |
| Width                    | 63 mm   | Width (inches)  | 2.48 inch  |

## System specifications

|                                              |                                     |  |                     |                                                    |
|----------------------------------------------|-------------------------------------|--|---------------------|----------------------------------------------------|
| Product family                               | OMNIMATE Signal - series BL/SL 3.50 |  |                     |                                                    |
| Type of connection                           | Board connection                    |  |                     |                                                    |
| Mounting onto the PCB                        | THT solder connection               |  |                     |                                                    |
| Pitch in mm (P)                              | 3.5 mm                              |  |                     |                                                    |
| Pitch in inches (P)                          | 0.138 inch                          |  |                     |                                                    |
| Outgoing elbow                               | 90°                                 |  |                     |                                                    |
| Number of poles                              | 32                                  |  |                     |                                                    |
| Number of solder pins per pole               | 1                                   |  |                     |                                                    |
| Solder pin length (l)                        | 3.2 mm                              |  |                     |                                                    |
| Solder pin length tolerance                  | 0 / -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)              | 1.4 mm                              |  |                     |                                                    |
| Solder eyelet hole diameter tolerance (D)    | + 0.1 mm                            |  |                     |                                                    |
| L1 in mm                                     | 52.5 mm                             |  |                     |                                                    |
| L1 in inches                                 | 2.067 inch                          |  |                     |                                                    |
| Number of rows                               | 2                                   |  |                     |                                                    |
| Pin series quantity                          | 2                                   |  |                     |                                                    |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch        |  |                     |                                                    |
| Touch-safe protection acc. to DIN VDE 0470   | IP 10                               |  |                     |                                                    |
| Volume resistance                            | ≤5 mΩ                               |  |                     |                                                    |
| Can be coded                                 | Yes                                 |  |                     |                                                    |
| Plugging force/pole, max.                    | 10 N                                |  |                     |                                                    |
| Pulling force/pole, max.                     | 8 N                                 |  |                     |                                                    |
| Tightening torque                            | Torque type                         |  | Mounting screw, PCB |                                                    |
|                                              | Usage information                   |  | Tightening torque   | min. 0.1 Nm                                        |
|                                              |                                     |  |                     | max. 0.15 Nm                                       |
|                                              |                                     |  | Recommended screw   | Part number <a href="#">PTSC KA 2.2X4.5 WN1412</a> |

## 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  | 2...3 µm Ni / 5...7 µm Sn glossy | Storage temperature, min.             | -40 °C |
| Storage temperature, max.             | 70 °C                            | Operating temperature, min.           | -50 °C |
| Operating temperature, max.           | 100 °C                           | Temperature range, installation, min. | -30 °C |
| Temperature range, installation, max. | 100 °C                           |                                       |        |

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## Rated data acc. to IEC

|                                                                           |                        |                                                                       |                  |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 10.5 A           |
| Rated current, max. number of poles (Tu=20°C)                             | 8 A                    | Rated current, min. number of poles (Tu=40°C)                         | 9 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 7 A                    | Rated voltage for surge voltage class / pollution degree II/2         | 200 V            |
| Rated voltage for surge voltage class / pollution degree III/2            | 160 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 125 V            |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 2.5 kV                 | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV           |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 2.5 kV                 | Short-time withstand current resistance                               | 3 x 1s with 80 A |

## Rated data acc. to CSA

|                                   |                                                                                   |                                   |                |
|-----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------|----------------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 154685-1318353 |
| Rated voltage (Use group B / CSA) | 300 V                                                                             | Rated voltage (Use group D / CSA) | 300 V          |
| Rated current (Use group B / CSA) | 8 A                                                                               | Rated current (Use group D / CSA) | 8 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) | 8 A                                                                                 | Rated current (Use group D / UL 1059) | 8 A    |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.              |                                       |        |

## Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 31 mm  |
| VPE width | 134 mm | VPE height | 146 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 |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****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          | <ul style="list-style-type: none"><li>• Additional colours on request</li><li>• Gold-plated contact surfaces on request</li><li>• Rated current related to rated cross-section &amp; min. No. of poles.</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> |

**Approvals**

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E60693  |

**Downloads**

|                                             |                                                 |
|---------------------------------------------|-------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a> |
|---------------------------------------------|-------------------------------------------------|

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## Drawings

[illegible]

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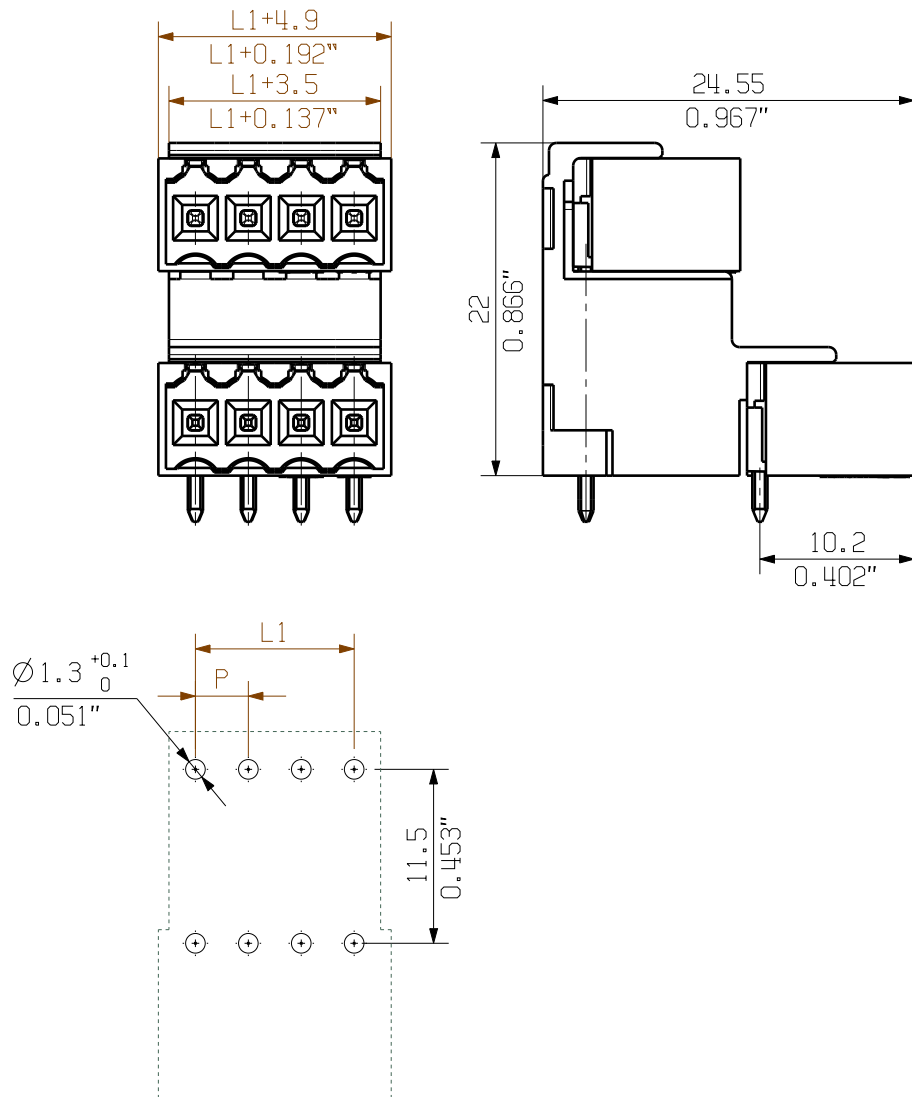
Dimensions without tolerances are no check dimensions

The English version is binding

AUSFUEHRUNG/TYPE: SLD 3.50V/./90F..

AUSFUEHRUNG/TYPE SLD 3.50V/./90..

AUSFUEHRUNG/TYPE: SLD 3.50V/./90G..



|    |       |       |       |       |
|----|-------|-------|-------|-------|
| 46 | 80,50 | 77,00 | 81,90 | 87,50 |
| 42 | 73,50 | 70,00 | 74,90 | 80,50 |
| 38 | 66,50 | 63,00 | 67,90 | 73,50 |
| 34 | 59,50 | 56,00 | 60,90 | 66,50 |
| 30 | 52,50 | 49,00 | 53,90 | 59,50 |
| 26 | 45,50 | 42,00 | 46,90 | 52,50 |
| 22 | 38,50 | 35,00 | 39,90 | 45,50 |
| 18 | 31,50 | 28,00 | 32,90 | 38,50 |
| 14 | 24,50 | 21,00 | 25,90 | 31,50 |
| 10 | 17,50 | 14,00 | 18,90 | 24,50 |
| 6  | 10,50 | 7,00  | 11,90 | 17,50 |
| n  | L     | L1    | L2    | L3    |

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 IEC 60326 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

99080/5  
20.10.17 HELIS\_MA

06

Modification

Drawn  
13.08.2004  
LANG\_T

Responsible  
Checked  
01.11.2017  
HELI\_MA

Approved  
HECKERT\_M

Cat.no.: .

3 21372 15

Drawing no. 3 21372  
Sheet 00 of 00 sheets

SLD 3.50V/./90...  
STIFTELEISTE  
MALE HEADER

Product file: SLD 3.50V

7302

## 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.