

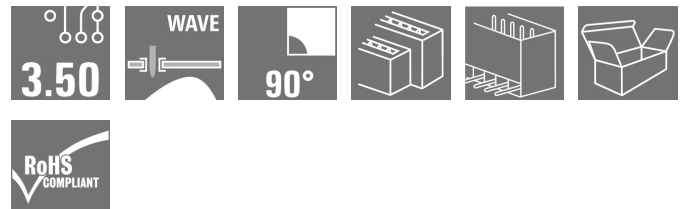
**SLD 3.50/14/90G 3.2SN BK BX SO****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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, closed side, THT solder connection, 3.50 mm, Number of poles: 14, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box |
| Order No.    | <a href="#">1253750000</a>                                                                                                                                   |
| Type         | SLD 3.50/14/90G 3.2SN BK BX SO                                                                                                                               |
| GTIN (EAN)   | 4050118046151                                                                                                                                                |
| Qty.         | 20 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      | 8.02 g     |
| Width                    | 25.9 mm | Width (inches)  | 1.02 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                              | 14                                  | 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                                     | 21 mm                               | L1 in inches                               | 0.827 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 cycles                              | 25                                  | Plugging force/pole, max.                  | 10 N             |
| Pulling force/pole, max.                     | 8 N                                 |                                            |                  |

## Material data

|                                       |          |                                       |                                  |
|---------------------------------------|----------|---------------------------------------|----------------------------------|
| Insulating material                   | PBT      | Colour                                | black                            |
| Colour chart (similar)                | RAL 9011 | Insulating material group             | IIIa                             |
| Comparative Tracking Index (CTI)      | ≥ 200    | Insulation strength                   | ≥ 10 <sup>8</sup> Ω              |
| 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                           |

## 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

|                                   |       |                                   |       |
|-----------------------------------|-------|-----------------------------------|-------|
| 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   |

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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) 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

62 mm

VPE width

102 mm

VPE height

115 mm

**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

- 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

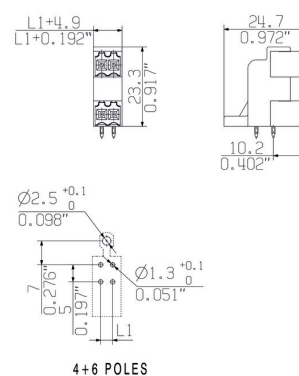
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# Drawings

## Dimensional drawing



## Recommended wave soldering profiles

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

### 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.