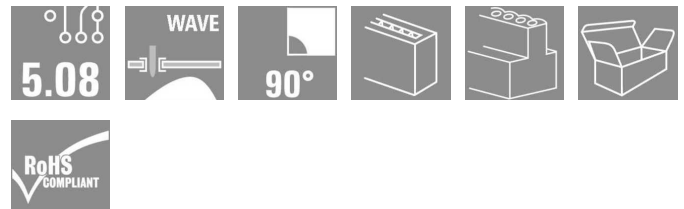


**OMNIMATE Signal - series BL/SL 5.08**  
**BLL 5.08/09/90 3.2 SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
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[www.weidmueller.com](http://www.weidmueller.com)



Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

**General ordering data**

|              |                                                                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type         | BLL 5.08/09/90 3.2 SN OR BX                                                                                                                             |
| Order No.    | <a href="#">1623010000</a>                                                                                                                              |
| Version      | PCB plug-in connector, female header, closed side, Solder connection, 5.08 mm, No. of poles: 9, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box |
| GTIN (EAN)   | 4008190194062                                                                                                                                           |
| Qty.         | 36 pc(s).                                                                                                                                               |
| Product data | IEC: 400 V / 23 A<br>UL: 300 V / 15 A                                                                                                                   |
| Packaging    | Box                                                                                                                                                     |

# OMNIMATE Signal - series BL/SL 5.08

## BLL 5.08/09/90 3.2 SN OR BX

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## Technical data

### Dimensions and weights

|            |        |
|------------|--------|
| Net weight | 9.53 g |
|------------|--------|

### System parameters

|                                 |                                     |                                              |                        |
|---------------------------------|-------------------------------------|----------------------------------------------|------------------------|
| Product family                  | OMNIMATE Signal - series BL/SL 5.08 | Mounting onto the PCB                        | Solder connection      |
| Outgoing elbow                  | 90°                                 | Pitch in mm (P)                              | 5.08 mm                |
| Pitch in inches (P)             | 0.2 inch                            | No. of poles                                 | 9                      |
| Solder pin length (l)           | 3.2 mm                              | Solder pin length tolerance                  | +0.1 / -0.3 mm         |
| Solder pin dimensions           | 0.4 x 1.00 mm                       | Plugging cycles                              | 25                     |
| Can be coded                    | Yes                                 | Number of solder pins per pole               | 2                      |
| Solder eyelet hole diameter (D) | 1.3 mm                              | Solder eyelet hole diameter tolerance (D)    | + 0,1 mm               |
| L1 in mm                        | 40.64 mm                            | L1 in inches                                 | 1.6 inch               |
| Insulation resistance           | $\geq 10^8 \Omega$                  | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Volume resistance               | 4.50 mΩ                             |                                              |                        |

### Material data

|                                       |                          |                                       |                          |
|---------------------------------------|--------------------------|---------------------------------------|--------------------------|
| Insulating material                   | PBT GF                   | Moisture Level (MSL)                  | 3                        |
| Colour                                | Orange                   | Insulating material group             | IIIa                     |
| UL 94 flammability rating             | V-0                      | CTI                                   | $\geq 200$               |
| Contact material                      | Cu-Leg                   | Layer structure of solder connection  | 4-6 μm Sn hot-dip tinned |
| Layer structure of plug contact       | 4-6 μm Sn hot-dip tinned | Contact surface                       | tinned                   |
| Operating temperature, min.           | -50 °C                   | Operating temperature, max.           | 100 °C                   |
| Temperature range, installation, min. | -25 °C                   | Temperature range, installation, max. | 100 °C                   |
| Storage temperature, min.             | -25 °C                   | Storage temperature, max.             | 55 °C                    |
| Max. relative humidity during storage | 80 %                     |                                       |                          |

### Rating data acc. to IEC 60664-1 / IEC 61984

|                                                                |                   |                                                                           |      |
|----------------------------------------------------------------|-------------------|---------------------------------------------------------------------------|------|
| Rated current, min. no. of poles (Ta = 20°C)                   | 23 A              | Rated current, max. no. of poles (Ta = 20°C)                              | 16 A |
| Rated current, min. no. of poles (Ta = 40°C)                   | 20 A              | Rated current, max. no. of poles (Ta = 40°C)                              | 14 A |
| Rated voltage for surge voltage class / pollution degree III/3 | 250 V             | Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV |
| Rated voltage for surge voltage class / pollution degree III/2 | 320 V             | Rated impulse voltage for surge voltage class/ pollution degree III/2     | 4 kV |
| Rated voltage for surge voltage class / pollution degree II/2  | 400 V             | Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV |
| Short-time withstand current resistance                        | 3 x 1s with 120 A |                                                                           |      |

### Rated data acc. to CSA

|                              |                                                                                     |                             |                |
|------------------------------|-------------------------------------------------------------------------------------|-----------------------------|----------------|
| Institute (CSA)              |  | Certificate No. (CSA)       | 200039-1121690 |
| Rated voltage (Use group B)  | 300 V                                                                               | Rated voltage (use group D) | 300 V          |
| Rated current (use group B)  | 15 A                                                                                | Rated current (use group D) | 10 A           |
| Reference to approval values | Specifications are maximum values, details - see approval certificate.              |                             |                |

**OMNIMATE Signal - series BL/SL 5.08  
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**Technical data****Rated data acc. to UL 1059**

|                              |                                                                                   |                             |        |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------|--------|
| Institute (UR)               |  | Certificate No. (UR)        | E60693 |
| Rated voltage (use group B)  | 300 V                                                                             | Rated voltage (use group D) | 300 V  |
| Rated current (use group B)  | 15 A                                                                              | Rated current (use group D) | 10 A   |
| Reference to approval values | Specifications are maximum values, details - see approval certificate.            |                             |        |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001284    | ETIM 4.0   | EC002637    |
| ETIM 5.0   | EC002637    | ETIM 6.0   | EC002637    |
| UNSPSC     | 30-21-18-10 | eClass 5.1 | 27-26-07-04 |
| eClass 6.2 | 27-26-07-04 | eClass 7.1 | 27-44-04-02 |
| eClass 8.1 | 27-44-04-02 | eClass 9.0 | 27-44-04-02 |

**Notes**

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> </ul> |
| IPC conformity | The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.                                                                                                                                                                                                                             |

**Approvals**

|           |                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals |    |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

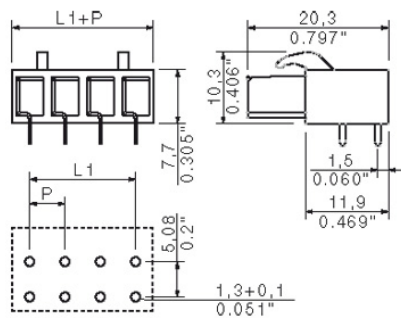
**Downloads**

|                                                                                        |                                      |
|----------------------------------------------------------------------------------------|--------------------------------------|
| EDA Layout Library (Mentor Graphics Expedition, Mentor Graphics Pads, Altium Designer) | <a href="#">Select your download</a> |
| CAD Library (P-CAD Format - ASCII)                                                     | <a href="#">BLL.zip</a>              |
| CAD Library (P-CAD Format - Standard)                                                  | <a href="#">BLL.zip</a>              |
| <a href="#">3-D model</a>                                                              |                                      |

## OMNIMATE Signal - series BL/SL 5.08 BLL 5.08/09/90 3.2 SN OR BX

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# Drawings



**OMNIMATE Signal - series BL/SL 5.08**  
**BLL 5.08/09/90 3.2 SN OR BX****Weidmüller Interface GmbH & Co. KG**

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**Mating connector (fully pluggable)****SL 5.00/90**

Male connectors with 90° outlet direction. 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        | Order No.                  | Version                      | GTIN (EAN)    | Qty.      | Product data      | Packaging |
|-------------|----------------------------|------------------------------|---------------|-----------|-------------------|-----------|
| SL          | <a href="#">1626050000</a> | PCB plug-in connector, male  | 4008190197353 | 50 pc(s). | IEC: 400 V / 18 A | Box       |
| 5.00/09/90  |                            | header, open side, Solder    |               |           | UL: 300 V / 15 A  |           |
| 4.5SN BK BX |                            | connection, 5.00 mm, No.     |               |           |                   |           |
|             |                            | of poles: 9, 90°, Solder pin |               |           |                   |           |
|             |                            | length (l): 4.5 mm, tinned,  |               |           |                   |           |
|             |                            | Black, Box                   |               |           |                   |           |

## OMNIMATE Signal - series BL/SL 5.08 BLL 5.08/09/90 3.2 SN OR BX

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## Accessories

### Coding elements



#### **Only connects what is supposed to be connected: the right connection at the right place.**

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.

Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

### General ordering data

| Type               | Order No.                  | Version                                                                              | GTIN (EAN)    | Qty.       | Product data |
|--------------------|----------------------------|--------------------------------------------------------------------------------------|---------------|------------|--------------|
| BLZ/SL KO BK<br>BX | <a href="#">1545710000</a> | PCB plug-in connector,<br>Accessories, Coding<br>element, Black, No. of<br>poles: 1  | 4008190087142 | 50 pc(s).  |              |
| BLZ/SL KO OR<br>BX | <a href="#">1573010000</a> | PCB plug-in connector,<br>Accessories, Coding<br>element, Orange, No. of<br>poles: 1 | 4008190048396 | 100 pc(s). |              |

## Recommended wave soldering profiles

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

# Addresses worldwide

## Let's connect.

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You can find all Weidmüller addresses and your local contact on the internet at: [www.weidmueller.com/countries](http://www.weidmueller.com/countries)

Let's connect.

Sales company

Representation abroad

without representation abroad

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