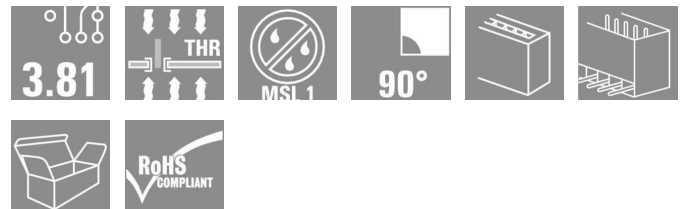
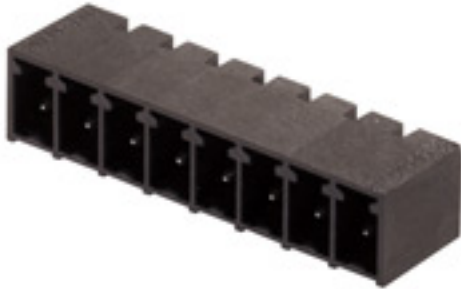


**OMNIMATE Signal - series BC/SC 3.81  
SC-SMT 3.81/10/90G 1.5SN BK BX**

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[www.weidmueller.com](http://www.weidmueller.com)



High-temperature-resistant pin header (SC-SMT 90G) in 3.81-mm pitch (0.15 inch)

- Plugging direction parallel to PCB (recumbent)
- Closed (G)
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

**General ordering data**

|              |                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type         | SC-SMT 3.81/10/90G 1.5SN BK BX                                                                                                                                |
| Order No.    | <a href="#">1863070000</a>                                                                                                                                    |
| Version      | PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, No. of poles: 10, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box |
| GTIN (EAN)   | 4032248428267                                                                                                                                                 |
| Qty.         | 50 pc(s).                                                                                                                                                     |
| Product data | IEC: 320 V / 17.5 A<br>UL: 300 V / 10 A                                                                                                                       |
| Packaging    | Box                                                                                                                                                           |

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### Technical data

#### Dimensions and weights

Net weight 2.58 g

#### System specifications

| Product family                                    | OMNIMATE Signal - series BC/SC 3.81 | Type of connection                           | Board connection       |
|---------------------------------------------------|-------------------------------------|----------------------------------------------|------------------------|
| Mounting onto the PCB                             | THT/THR solder connection           | Pitch in mm (P)                              | 3.81 mm                |
| Pitch in inches (P)                               | 0.15 inch                           | Outgoing elbow                               | 90°                    |
| No. of poles                                      | 10                                  | Number of solder pins per pole               | 1                      |
| Solder pin length (l)                             | 1.5 mm                              | Solder pin length tolerance                  | 0 / -0,02 mm           |
| Tolerance of solder pin position                  | ± 0.15 mm                           | Solder pin dimensions                        | d = 1.0 mm, Octagonal  |
| Solder pin dimensions = d tolerance               | 0 / -0,04 mm                        | Solder eyelet hole diameter (D)              | 1.3 mm                 |
| Solder eyelet hole diameter tolerance (D)+ 0,1 mm |                                     | Outside diameter of solder pad               | 2.1 mm                 |
| Template aperture diameter                        | 1.9 mm                              | L1 in mm                                     | 34.29 mm               |
| L1 in inches                                      | 1.35 inch                           | Number of rows                               | 1                      |
| Pin series quantity                               | 1                                   | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Touch-safe protection acc. to DIN VDE 0470        | IP 20                               | Volume resistance                            | 6.00 mΩ                |
| Can be coded                                      | Yes                                 | Plugging cycles                              | 25                     |
| push-in force/pole                                | 0 N                                 | Packaging                                    | Box                    |

#### Material data

|                                       |          |                                       |                     |
|---------------------------------------|----------|---------------------------------------|---------------------|
| Insulating material                   | LCP GF   | Colour                                | Black               |
| Colour chart (similar)                | RAL 9011 | Insulating material group             | IIIa                |
| CTI                                   | ≥ 175    | Insulation resistance                 | ≥ 10 <sup>8</sup> Ω |
| Moisture Level (MSL)                  | 1        | UL 94 flammability rating             | V-0                 |
| Contact material                      | Cu-Leg   | Contact surface                       | tinned              |
| Storage temperature, min.             | -25 °C   | Storage temperature, max.             | 55 °C               |
| Max. relative humidity during storage | 80 %     | 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. no. of poles (Ta = 20°C)                          | 17.5 A           |
| Rated current, max. no. of poles (Ta = 20°C)                              | 13.9 A                 | Rated current, min. no. of poles (Ta = 40°C)                          | 17 A             |
| Rated current, max. no. of poles (Ta = 40°C)                              | 12.4 A                 | Rated voltage for surge voltage class / pollution degree II/2         | 320 V            |
| Rated voltage for surge voltage class / pollution degree III/2            | 160 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 160 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 76 A |

**OMNIMATE Signal - series BC/SC 3.81**  
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**Technical data**
**Rated data acc. to CSA**

|                              |                                                                                   |                             |                |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------|----------------|
| Institute (CSA)              |  | Certificate No. (CSA)       | 200039-1121690 |
| Rated voltage (Use group B)  | 300 V                                                                             | Rated current (use group B) | 8 A            |
| Reference to approval values | Specifications are maximum values, details - see approval certificate.            |                             |                |

**Rated data acc. to UL 1059**

|                              |                                                                                   |                             |        |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------|--------|
| Institute (cURus)            |  | Certificate No. (cURus)     | E60693 |
| Rated voltage (use group B)  | 300 V                                                                             | Rated voltage (use group D) | 300 V  |
| Rated current (use group B)  | 10 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 |
| eClass 9.1 | 27-44-04-02 |            |             |

**Notes**

|                |                                                                                                                                                                                                                                                                                                                                              |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes          | <ul style="list-style-type: none"> <li>Rated current related to rated cross-section &amp; min. No. of poles.</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>P on drawing = pitch</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                                                                              |

### OMNIMATE Signal - series BC/SC 3.81 SC-SMT 3.81/10/90G 1.5SN BK BX

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## Technical data

### Downloads

EDA Layout Library (Mentor Graphics  
Expedition, Mentor Graphics Pads,  
Altium Designer)

[Select your download](#)

SMT white paper

[Download Whitepaper](#)

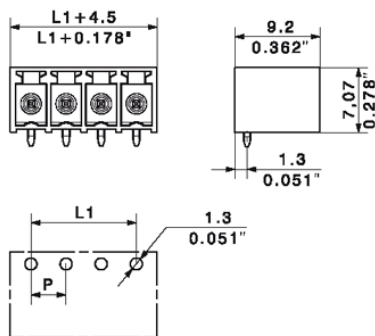
Safety notice

[Safety indication](#)

## OMNIMATE Signal - series BC/SC 3.81 SC-SMT 3.81/10/90G 1.5SN BK BX

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# Drawings



## 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  $260 \text{ °C}$ . In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.

## Recommended reflow soldering profile

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## Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically  $\leq +3\text{K/s}$ . In parallel the solder paste is 'activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at  $\geq -6\text{K/s}$  solder is cured. Board and components cool down while avoiding cold cracks.

# 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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