

**OMNIMATE Signal - series BL/SL 5.08  
BLC 5.08/02/180R OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

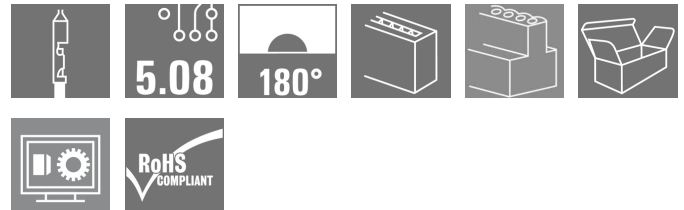
D-32758 Detmold

Germany

Fon: +49 5231 1429-0

Fax: +49 5231 14292083

www.weidmueller.com



Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

**General ordering data**

|              |                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Type         | BLC 5.08/02/180R OR BX                                                                                                                     |
| Order No.    | <a href="#">1610490000</a>                                                                                                                 |
| Version      | PCB plug-in connector, female plug, 5.08 mm, No. of poles: 2, 180°, Crimp connection, Clamping range, rated connection, max.: 2.5 mm², Box |
| GTIN (EAN)   | 4008190057114                                                                                                                              |
| Qty.         | 100 pc(s).                                                                                                                                 |
| Product data | IEC: 400 V / 21 A<br>UL: 300 V / 10 A / AWG 26 - AWG 14                                                                                    |
| Packaging    | Box                                                                                                                                        |

## OMNIMATE Signal - series BL/SL 5.08 BLC 5.08/02/180R OR BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
www.weidmueller.com

### Technical data

#### Dimensions and weights

|            |        |
|------------|--------|
| Net weight | 1.52 g |
|------------|--------|

#### System parameters

|                                              |                                     |                            |                     |
|----------------------------------------------|-------------------------------------|----------------------------|---------------------|
| Product family                               | OMNIMATE Signal - series BL/SL 5.08 | Type of connection         | Socket connector    |
| Wire connection method                       | Crimp connection                    | Pitch in mm (P)            | 5.08 mm             |
| Pitch in inches (P)                          | 0.2 inch                            | Conductor outlet direction | 180°                |
| No. of poles                                 | 2                                   | L1 in mm                   | 5.08 mm             |
| L1 in inches                                 | 0.2 inch                            | Number of rows             | 1                   |
| Pin series quantity                          | 1                                   | Rated cross-section        | 2.5 mm <sup>2</sup> |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch              | Can be coded               | Yes                 |
| Stripping length                             | 5 mm                                | Plugging cycles            | 25                  |
| Packaging                                    | Box                                 |                            |                     |

#### Material data

|                                       |                          |                                       |                     |
|---------------------------------------|--------------------------|---------------------------------------|---------------------|
| Insulating material                   | PBT GF                   | Colour                                | Orange              |
| Colour chart (similar)                | RAL 2000                 | Insulating material group             | IIIa                |
| CTI                                   | ≥ 200                    | Insulation resistance                 | ≥ 10 <sup>8</sup> Ω |
| UL 94 flammability rating             | V-0                      | Contact material                      | Copper alloy        |
| Layer structure of plug contact       | 4-8 µm Sn hot-dip 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.           | 100 °C              |
| Temperature range, installation, min. | -25 °C                   | Temperature range, installation, max. | 100 °C              |

#### Conductors suitable for connection

|                                         |                      |                                         |                     |
|-----------------------------------------|----------------------|-----------------------------------------|---------------------|
| Clamping range, rated connection, min.  | 0.22 mm <sup>2</sup> | Clamping range, rated connection, max.  | 2.5 mm <sup>2</sup> |
| Wire connection cross section AWG, min. | AWG 24               | Wire connection cross section AWG, max. | AWG 14              |
| Flexible, min. H05(07) V-K              | 0.5 mm <sup>2</sup>  | Flexible, max. H05(07) V-K              | 2.5 mm <sup>2</sup> |

#### Rated data acc. to IEC

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Ta = 20°C)                          | 21 A              |
| Rated current, max. no. of poles (Ta = 20°C)                              | 14.5 A                 | Rated current, min. no. of poles (Ta = 40°C)                          | 18 A              |
| Rated current, max. no. of poles (Ta = 40°C)                              | 12.5 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                   | Short-time withstand current resistance                               | 3 x 1s with 120 A |

**OMNIMATE Signal - series BL/SL 5.08  
BLC 5.08/02/180R OR BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 1429-0  
 Fax: +49 5231 14292083  
 www.weidmueller.com

**Technical data****Rated data acc. to CSA**

Institute (CSA)



Certificate No. (CSA)

12400-374

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| Rated voltage (Use group B)   | 300 V                                                                  |
| Rated current (use group B)   | 10 A                                                                   |
| Wire cross-section, AWG, min. | AWG 26                                                                 |
| Reference to approval values  | Specifications are maximum values, details - see approval certificate. |

|                               |        |
|-------------------------------|--------|
| Rated voltage (use group D)   | 300 V  |
| Rated current (use group D)   | 10 A   |
| Wire cross-section, AWG, max. | AWG 14 |

**Rated data acc. to UL 1059**

Institute (UR)



Certificate No. (UR)

E60693

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| Rated voltage (use group B)   | 300 V                                                                  |
| Rated current (use group B)   | 10 A                                                                   |
| Wire cross-section, AWG, min. | AWG 26                                                                 |
| Reference to approval values  | Specifications are maximum values, details - see approval certificate. |

|                               |        |
|-------------------------------|--------|
| Rated voltage (use group D)   | 300 V  |
| Rated current (use group D)   | 10 A   |
| Wire cross-section, AWG, max. | AWG 14 |

**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

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated cross-section depends on crimp contact used.
- 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.

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

Creation date October 11, 2017 1:47:56 PM CEST

Catalogue status 06.10.2017 / We reserve the right to make technical changes.

### OMNIMATE Signal - series BL/SL 5.08 BLC 5.08/02/180R OR BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
[www.weidmueller.com](http://www.weidmueller.com)

## Technical data

### Downloads

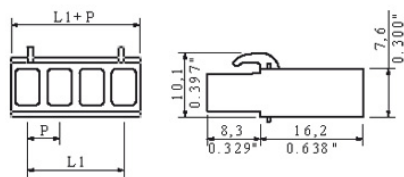
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Brochure/Catalogue                          | <a href="#">FL DRIVES EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">CAT 2 PORTFOLIOGUIDE EN</a><br><a href="#">FL BUILDING SAFETY EN</a><br><a href="#">FL APPL LED LIGHTING EN</a><br><a href="#">FL INDUSTR.CONTROLS EN</a><br><a href="#">FL MACHINE SAFETY EN</a><br><a href="#">FL HEATING ELECTR EN</a><br><a href="#">FL APPL INVERTER EN</a><br><a href="#">FL BASE STATION EN</a><br><a href="#">FL ELEVATOR EN</a><br><a href="#">FL POWER SUPPLY EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a> |
| Engineering Data                            | <a href="#">WSCAD</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## OMNIMATE Signal - series BL/SL 5.08 BLC 5.08/02/180R OR BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

## Dimensional drawing



## Graph

