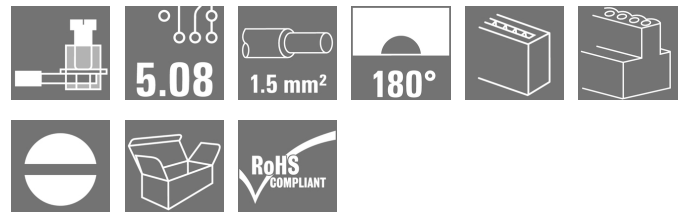


**OMNIMATE Signal - series BL/SL 5.08
BLZ 5.08/08/180 SN GY BX**

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

Product image


Do not use product for new developments



Female plugs with clamping-yoke screw for wire connection with straight (180°) outlet direction. The female plugs provide space for labelling and can be coded.

General ordering data

| | |
|---------------------|--|
| Delivery status | This article will no longer be available in the future. |
| Available until | 2019-12-31 |
| Type | BLZ 5.08/08/180 SN GY BX |
| Order No. | 1527000000 |
| Version | PCB plug-in connector, female plug, 5.08 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box |
| GTIN (EAN) | 4008190017613 |
| Qty. | 50 pc(s). |
| Product data | IEC: 400 V / 19 A / 0.2 - 2.5 mm² UL: 300 V / 15 A / AWG 26 - AWG 12 |
| Packaging | Box |
| Alternative product | 1505070000 |

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Technical data**Dimensions and weights**

| | | | |
|------------|----------|-----------------|------------|
| Width | 40.64 mm | Width (inches) | 1.6 inch |
| Height | 15.2 mm | Height (inches) | 0.598 inch |
| Depth | 20.1 mm | Depth (inches) | 0.791 inch |
| Net weight | 13.24 g | | |

system parameters

| | | | |
|--|-------------------------------------|--|---------------------|
| Product family | OMNIMATE Signal - series BL/SL 5.08 | Type of connection | Field connection |
| Wire connection method | Clamping yoke connection | Pitch in mm (P) | 5.08 mm |
| Pitch in inches (P) | 0.2 inch | Conductor outlet direction | 180° |
| No. of poles | 8 | L1 in mm | 35.56 mm |
| L1 in inches | 1.4 inch | Number of rows | 1 |
| Pin series quantity | 1 | Rated cross-section | 2.5 mm ² |
| 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 | 4.50 mΩ | Can be coded | Yes |
| Stripping length | 7 mm | Tightening torque, min. | 0.4 Nm |
| Tightening torque, max. | 0.5 Nm | Clamping screw | M 2.5 |
| Screwdriver blade | 0.6 x 3.5 | Screwdriver blade standard | DIN 5264 |
| Plugging cycles | 25 | Plugging force/pole, max. | 8.5 N |
| Pulling force/pole, max. | 6.5 N | | |

Material data

| | | | |
|---------------------------------------|--------------|---------------------------------------|--------------------------|
| Insulating material | PBT | Colour | Pebble grey |
| Colour chart (similar) | RAL 7032 | Insulating material group | IIIa |
| CTI | ≥ 200 | Insulation strength | ≥ 10 ⁸ Ω |
| UL 94 flammability rating | V-0 | GWFI | 960 °C |
| Contact base material | Copper alloy | Contact material | Copper alloy |
| Contact surface | tinned | 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, min. | 0.13 mm ² |
| Clamping range, max. | 3.31 mm ² |
| Wire connection cross section AWG, min. | AWG 26 |
| Wire connection cross section AWG, max. | AWG 12 |
| Solid, min. H05(07) V-U | 0.2 mm ² |
| Solid, max. H05(07) V-U | 2.5 mm ² |
| Flexible, min. H05(07) V-K | 0.2 mm ² |
| Flexible, max. H05(07) V-K | 2.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm ² min. | |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max. | |
| w. wire end ferrule, DIN 46228 pt 1, min 0.2 mm ² | |
| w. wire end ferrule, DIN 46228 pt 1, 2.5 mm ² max. | |

Creation date May 16, 2019 1:31:24 PM CEST

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Technical data

Plug gauge in accordance with EN 60999 a x b; ø 2.8 mm x 2.0 mm; 2.4 mm

| | | | |
|--|--|------------------|----------------------|
| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
| | | nominal | 0.5 mm ² |
| AEH | | Stripping length | nominal 6 mm |
| Cross-section for conductor connection | | Type | fine-wired |
| | | nominal | 1 mm ² |
| AEH | | Stripping length | nominal 6 mm |
| Cross-section for conductor connection | | Type | fine-wired |
| | | nominal | 1.5 mm ² |
| AEH | | Stripping length | nominal 7 mm |
| Cross-section for conductor connection | | Type | fine-wired |
| | | nominal | 2.5 mm ² |
| AEH | | Stripping length | nominal 7 mm |
| Cross-section for conductor connection | | Type | fine-wired |
| | | nominal | 0.75 mm ² |
| AEH | | Stripping length | nominal 6 mm |


Reference text The outside diameter of the plastic collar should not be larger than the pitch (P).

Max. clamping range 3.31 mm²

Rated data acc. to IEC

| | | | |
|---|------------------------|---|-------------------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Tu=20°C) | 19 A |
| Rated current, max. no. of poles (Tu=20°C) | 14.5 A | Rated current, min. no. of poles (Tu=40°C) | 16 A |
| Rated current, max. no. of poles (Tu=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 |

Rated data acc. to CSA

| | | | |
|-----------------------------------|---|-----------------------------------|----------------|
| Institute (CSA) |  | Certificate No. (CSA) | 200039-1121690 |
| Rated voltage (Use group B / CSA) | 300 V | Rated voltage (Use group D / CSA) | 300 V |
| Rated current (Use group B / CSA) | 15 A | Rated current (Use group D / CSA) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 12 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |


Data sheet

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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) | 15 A | Rated current (Use group D / UL 1059) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 12 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Packing

| | | | |
|-----------|--------|------------|--------|
| Packaging | Box | VPE length | 23 mm |
| VPE width | 175 mm | VPE height | 240 mm |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC001284 | ETIM 4.0 | EC002637 |
| ETIM 5.0 | EC002637 | ETIM 6.0 | EC002638 |
| 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 | 27-44-03-09 |
| eClass 9.1 | 27-44-03-09 | | |

Notes

| | |
|-------|---|
| Notes | <ul style="list-style-type: none"> • Additional colours on request • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228/1 • Wire end ferrule with plastic collar to DIN 46228/4 • 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 | 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. |
|----------------|--|

Approvals

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

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

Data sheet

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Technical data

Downloads

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Data sheet**OMNIMATE Signal - series BL/SL 5.08
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Drawings