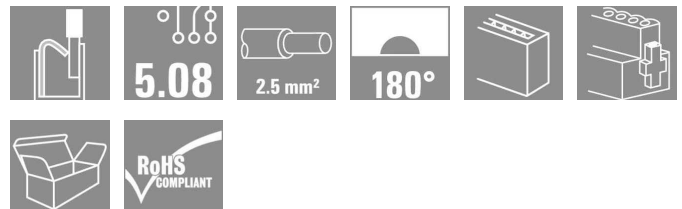


## OMNIMATE Signal - series BL/SL 5.08 BLDF 5.08/03/180F SN OR BX

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



The powerful daisy-chain solution for high-performance signal bus applications is also suitable for 400V auxiliary power chains with 18.5A current-carrying capacity. The large clamping capacity (up to 2.5mm<sup>2</sup> wire cross-sections) is particularly beneficial for long bus cables or high currents because of the low voltage drop. Four flange variations, including the patented release latch, allow for user-friendly unplugging designs.

### Specifications:

- 0.20 - 2.5mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC)
- 18.5 A (IEC)

### General ordering data

|              |   |
|--------------|---|
| Type         | BLDF 5.08/03/180F SN OR BX  |
| Order No.    | <a href="#">1012060000</a>  |
| Version      | PCB plug-in connector, female plug, 5.08 mm, No. of poles: 3, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box |
| GTIN (EAN)   | 4032248818037   |
| Qty.         | 48 pc(s).   |
| Product data | IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup><br>UL: 300 V / 10 A / AWG 12 - AWG 26   |
| Packaging    | Box   |

Erstellungs-Datum December 13, 2013 11:06:31 AM CET

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## Technische Daten

### Dimensions and weights

Net weight 9.74 g

### System parameters

|  |                                     |  |                           |
|--|-------------------------------------|--|---------------------------|
| Product family                               | OMNIMATE Signal - series BL/SL 5.08 | Wire connection method                     | PUSH IN spring connection |
| Conductor outlet direction                   | 180°                                | Pitch in mm (P)                            | 5.08 mm                   |
| Pitch in inches (P)                          | 0.2 inch                            | No. of poles                               | 3                         |
| Screwdriver blade                            | 0.6 x 3.5                           | Screwdriver blade standard                 | DIN 5264                  |
| Stripping length                             | 10 mm                               | L1 in mm                                   | 10.16 mm                  |
| L1 in inches                                 | 0.4 inch                            | Touch-safe protection acc. to DIN VDE 0470 | IP 20                     |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch              |  |                           |

### Material data

|                        |          |                           |        |
|------------------------|----------|---------------------------|--------|
| Insulating material    | PBT      | Colour                    | Orange |
| Colour chart (similar) | RAL 2000 | UL 94 flammability rating | V-0    |
| CTI                    | ≥ 200    | Contact material          | CuSn   |
| Contact surface        | tinned   |                           |        |

### Connectable conductors

|   |                      |   |                      |
|---|----------------------|---|----------------------|
| Clamping range, rated connection, min.          | 0.13 mm <sup>2</sup> | Clamping range, rated connection, max.          | 3.31 mm <sup>2</sup> |
| 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 <sup>2</sup>  | Solid, max. H05(07) V-U                         | 2.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                      | 0.2 mm <sup>2</sup>  | Flexible, max. H05(07) V-K                      | 2.5 mm <sup>2</sup>  |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.2 mm <sup>2</sup>  | w. wire end ferrule, DIN 46228 pt 1, max.       | 2.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm <sup>2</sup>  | w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm <sup>2</sup>  |
| Plug gauge acc. to EN 60999 a x b; Ø            | 2.8 mm x 2.0 mm      |   |                      |

### DIN IEC rating data

|  |                   |  |        |
|--|-------------------|--|--------|
| Rated current, min. no. of poles (TU=20°C)                           | 20.8 A            | Rated current, max. no. of poles (Tu=20°C)                               | 17.4 A |
| Rated current, number of poles (Tu=40°C), min                        | 17.9 A            | Rated current, number of poles (Tu=40°C), max.                           | 14.9 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 |  |        |

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## Technische Daten

### CSA rating data

Institute (CSA)



Rated voltage (Use group B)

300 V

Rated current (use group B) 10 A

Rated voltage (use group D) 300 V

Rated current (use group D) 10 A

Wire cross-section, AWG, min. AWG 12

Wire cross-section, AWG, max. AWG 26

### UL 1059 rating data

Rated voltage (use group B) 300 V

Rated current (use group B) 10 A

Rated voltage (use group D) 300 V

Rated current (use group D) 10 A

Wire cross-section, AWG, min. AWG 12

Wire cross-section, AWG, max. AWG 26

### Cross-connector rated data according to DIN IEC

Rated current cross-connector, min.  
number of poles (Tu=20°C) 28.1 A

Rated current cross-connector, max.  
number of poles (Tu=20°C) 23.3 A

Rated current cross-connector, min.  
number of poles (Tu=40°C) 24.2 A

Rated current cross-connector, max.  
number of poles (Tu=40°C) 19.9 A

### Classifications

eClass 6.2 27-26-07-04

eClass 7.1 27-44-04-02

### Notes

Notes

- 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

### Approvals

Approvals



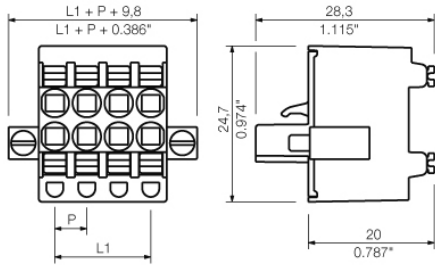
ROHS

Conform

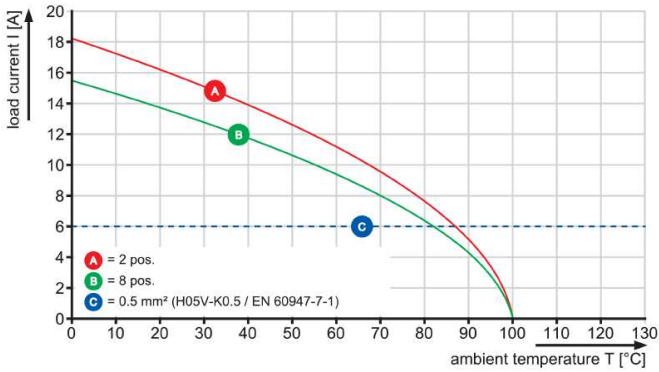
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**Zeichnungen**



BLDF 5.08/180 - SL 5.08HC/..90



BLDF 5.08/180 - SL 5.08HC/..90

