

**OMNIMATE Signal - series LM**  
**LM 5.00/02/90 3.5SN BK BX**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

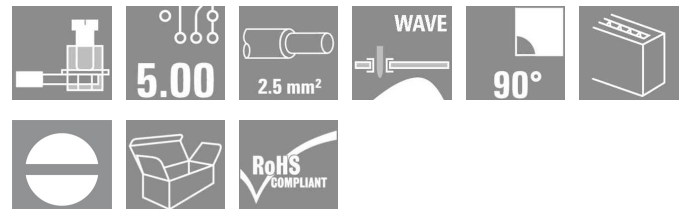
D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



PCB terminal with proven clamping yoke connection at 5.00 and 5.08 mm pitch. Conductor outlet direction 90°, 135° and 180°. Suitable for conductor cross-sections up to 2.5 mm<sup>2</sup>.

- 0.13 - 2.50 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 630 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 20 A (UL)

**General ordering data**

|              |                                                                                                                                                                                        |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type         | LM 5.00/02/90 3.5SN BK BX                                                                                                                                                              |
| Order No.    | <a href="#">1715250000</a>                                                                                                                                                             |
| Version      | PCB terminal, 5.00 mm, No. of poles: 2, 90°, Solder pin length (l): 3.5 mm, tinned, Black, Clamping yoke connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box |
| GTIN (EAN)   | 4008190365134                                                                                                                                                                          |
| Qty.         | 500 pc(s).                                                                                                                                                                             |
| Product data | IEC: 630 V / 17.5 A / 0.2 - 2.5 mm <sup>2</sup><br>UL: 300 V / 15 A / AWG 24 - AWG 14                                                                                                  |
| Packaging    | Box                                                                                                                                                                                    |

Creation date August 29, 2013 11:03:33 AM CEST

## OMNIMATE Signal - series LM

### LM 5.00/02/90 3.5SN BK 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

## Technical data

### Dimensions and weights

|            |         |
|------------|---------|
| Net weight | 2.448 g |
|------------|---------|

### System characteristics

|                                              |                             |                                            |                          |
|----------------------------------------------|-----------------------------|--------------------------------------------|--------------------------|
| Product family                               | OMNIMATE Signal - series LM | Wire connection method                     | Clamping yoke connection |
| Mounting onto the PCB                        | Solder connection           | Conductor outlet direction                 | 90°                      |
| Pitch in mm (P)                              | 5 mm                        | Pitch in inches (P)                        | 0.197 inch               |
| No. of poles                                 | 2                           | Fitted by customer                         | Yes                      |
| Max. adjacent poles per row                  | 24                          | Solder pin length (l)                      | 3.5 mm                   |
| Solder eyelet hole diameter (D)              | 1.3 mm                      | Solder eyelet hole diameter tolerance (D)+ | 0.1 mm                   |
| Number of solder pins per pole               | 1                           | Screwdriver blade                          | 0.6 x 3.5                |
| Screwdriver blade standard                   | DIN 5264                    | Tightening torque, min.                    | 0.4 Nm                   |
| Tightening torque, max.                      | 0.5 Nm                      | Clamping screw                             | M 2.5                    |
| Stripping length                             | 6 mm                        | L1 in mm                                   | 5 mm                     |
| L1 in inches                                 | 0.197 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           | Wemid (PA) | Colour                     | Black  |
| UL 94 flammability rating     | V-0        | CTI                        | ≥ 600  |
| Temperature of glow-wire test | 750 °C     | Duration of glow-wire test | 30 s   |
| Contact material              | Cu-Leg     | Contact surface            | tinned |
| Contact base material         | Cu-Leg     |                            |        |

### Connectable conductors

|                                                 |                        |                                                 |                     |
|-------------------------------------------------|------------------------|-------------------------------------------------|---------------------|
| Clamping range, rated connection, min.          | 0.2 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              |
| 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                      | 1.5 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.25 mm <sup>2</sup>   | w. wire end ferrule, DIN 46228 pt 1, max.       | 1.5 mm <sup>2</sup> |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.25 mm <sup>2</sup>   | w. plastic collar ferrule, DIN 46228 pt 4, max. | 1.5 mm <sup>2</sup> |
| Plug gauge acc. to EN 60999 a x b; Ø            | 2.4 mm x 1.5 mm; 1.9mm |                                                 |                     |

### DIN IEC rating data

|                                                                      |                   |                                                                          |        |
|----------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------|--------|
| Rated current, min. no. of poles (Tu=20°C)                           | 17.5 A            | Rated current, max. no. of poles (Tu=20°C)                               | 16 A   |
| Rated current, number of poles (Tu=40°C), min                        | 17.5 A            | Rated current, number of poles (Tu=40°C), max.                           | 14.2 A |
| Rated voltage for surge voltage class pollution degree II/2          | 630 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 LM

### LM 5.00/02/90 3.5SN BK 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](http://www.weidmueller.com)

## Technical data

### CSA rating data

Institute (CSA)



Rated voltage (Use group B)

300 V

Rated current (use group B) 18 A

Rated voltage (use group D) 300 V

Rated current (use group D) 10 A

Wire cross-section, AWG, min. AWG 24

Wire cross-section, AWG, max. AWG 14

### UL 1059 rating data

Rated voltage (use group B) 300 V

Rated current (use group B) 15 A

Rated voltage (use group D) 300 V

Rated current (use group D) 10 A

Wire cross-section, AWG, min. AWG 24

Wire cross-section, AWG, max. AWG 14

### Classifications

ETIM 3.0

EC001284

UNSPSC

30-21-18-01

eClass 6.2

27-26-11-01

eClass 7.1

27-44-04-01

### Notes

Notes

- 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
- The data given under CSA relates to a cUL approval - E60693
- 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.

### Approvals

Approvals



ROHS

Conform

### Downloads

CAD Library (P-CAD Format - ASCII) [LM.zip](#)CAD Library (P-CAD Format - Standard) [LM.zip](#)[3-D model](#)

**OMNIMATE Signal - series LM**  
**LM 5.00/02/90 3.5SN BK 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](http://www.weidmueller.com)**Drawings**