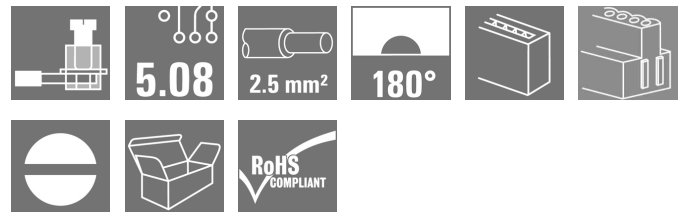


## Data sheet

### OMNIMATE Signal - series BLA/SLA 5.08 BLA 16B SN OR

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

### Product image



Similar to illustration

Female header with clamping yoke connection system. The principle of the vibration-proof screw connection and the Unimate range pin arrangement provides a unique security during operation. Also available with dovetail (B) for convenient attachment of fixing blocks. The BLA has a labelling panel and can be coded. Supplied in cardboard box.

### General ordering data

Type	BLA 16B SN OR
Order No.	<a href="#">1357460000</a>
Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 16, 180°, Clamping yoke connection, Clamping range, max. : 3.32 mm², Box
GTIN (EAN)	4008 190115883
Qty.	18 pc(s).
Product data	IEC: 400 V / 17.5 A / 0.2 - 2.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 12
Packaging	Box

Creation date 20 April 2020 17:17:37 CEST

## Data sheet

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## Technical data

### Dimensions and weights

Width	83.28 mm	Width (inches)	3.279 inch
Height	15.2 mm	Height (inches)	0.598 inch
Depth	20 mm	Depth (inches)	0.787 inch
Net weight	29.12 g		

### System Parameters

Product family	OMNIMATE Signal - series BLA/SLA 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°
Number of poles	16	L1 in mm	76.2 mm
L1 in inches	3 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	finger-safe unplugged/ back-of-hand-safe plugged	Volume resistance	5.50 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
Pulling force/pole, max.	2 N		

### Material data

Insulating material	PBT GF	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation strength	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	CuSn	Contact surface	tinned
Layer structure of plug contact	4-8 μm Sn hot-dip tinned	Storage temperature, min.	-25 °C
Storage temperature, max.	50 °C	Max. relative humidity during storage	70 %
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

### Conductors suitable for connection

Clamping range, min.	0.13 mm <sup>2</sup>	Clamping range, max.	3.32 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 28	Wire connection cross section AWG, max.	AWG 16
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. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 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.	1.5 mm <sup>2</sup>
Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm	Reference text	The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.
Max. clamping range	3.32 mm <sup>2</sup>		

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

## Data sheet

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## Technical data

### Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

Rated current, max. number of poles  
(Tu=20°C)

12.5 A

Rated current, max. number of poles  
(Tu=40°C)

11 A

Rated voltage for surge voltage class /  
pollution degree III/2

320 V

Rated impulse voltage for surge voltage  
class/ pollution degree II/2

4 kV

Rated impulse voltage for surge voltage  
class/ contamination degree III/3

4 kV

Rated current, min. number of poles  
(Tu=20°C)

17.5 A

Rated current, min. number of poles  
(Tu=40°C)

16 A

Rated voltage for surge voltage class /  
pollution degree II/2

400 V

Rated voltage for surge voltage class /  
pollution degree III/3

250 V

Rated impulse voltage for surge voltage  
class/ pollution degree III/2

4 kV

Short-time withstand current resistance

3 x 1s with 100 A

### Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

12400-158

Rated voltage (Use group B / CSA)

300 V

Rated current (Use group B / CSA)

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 / CSA)

300 V

Rated current (Use group D / CSA)

10 A

Wire cross-section, AWG, max.

AWG 12

### Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (Use group B / UL 1059)

300 V

Rated current (Use group B / UL 1059)

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 / UL 1059)

300 V

Rated current (Use group D / UL 1059)

10 A

Wire cross-section, AWG, max.

AWG 12

### Packing

Packaging

Box

VPE length

30 mm

VPE width

135 mm

VPE height

350 mm

### Classifications

ETIM 6.0

EC002638

ETIM 7.0

EC002638

eClass 9.0

27-44-03-09

eClass 9.1

27-44-03-09

eClass 10.0

27-44-03-09

UNSPSC

30-21-18-10

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## Technical data

### Notes

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

Approvals



ROHS	Conform
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### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Brochure/Catalogue	<a href="#">FL DRIVES EN</a> <a href="#">MB DEVICE MANUF. EN</a> <a href="#">FL DRIVES DE</a> <a href="#">FL BUILDING SAFETY EN</a> <a href="#">FL APPL LED LIGHTING EN</a> <a href="#">FLIndustr.CONTROLS EN</a> <a href="#">FL MACHINE SAFETY EN</a> <a href="#">FL HEATING ELECTR EN</a> <a href="#">FL APPL INVERTER EN</a> <a href="#">FL_BASE_STATION_EN</a> <a href="#">FL ELEVATOR EN</a> <a href="#">FL POWER SUPPLY EN</a> <a href="#">FL 72H SAMPLE SER EN</a> <a href="#">PO OMNIMATE EN</a>
Engineering Data	<a href="#">STEP</a>

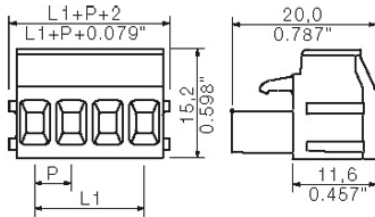
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## Drawings

### Dimensional drawing





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