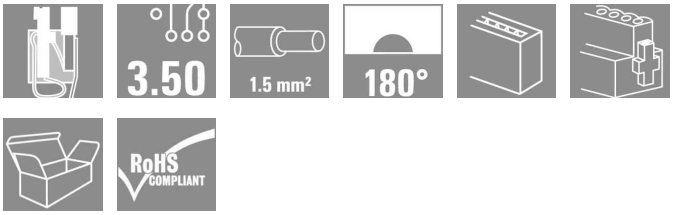
OMNIMATE Signal - series BL/SL 3.50
BL-I/O 3.50/30F SN BK BX

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





Female header with spring connection (PUSH IN) as a plug-in connection level for decentralised I/O electronics; used together with male headers in 3.50 mm pitch.

General ordering data

Type	BL-I/O 3.50/30F SN BK BX
Order No.	1779920000
Version	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm², Box
GTIN (EAN)	4032248165247
Qty.	20 pc(s).
Product data	IEC: 200 V / 2.2 A / 0.2 - 1.5 mm² UL: 50 V / 5 A / AWG 24 - AWG 16
Packaging	Box

Erstellungs-Datum January 14, 2014 6:56:50 PM CET

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Technische Daten

Dimensions and weights

Net weight	21.25 g

System parameters

Product family	OMNIMATE Signal - series BL/SL 3.50	Wire connection method	PUSH IN spring connection
Conductor outlet direction	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	30
Screwdriver blade	0.4 x 2.5	Screwdriver blade standard	DIN 5264
Stripping length	8 mm	L1 in mm	31.5 mm
L1 in inches	1.24 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	Black
Colour chart (similar)	RAL 9011	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	Cu-Leg
Contact surface	tinned	Contact base material	Cu-Leg
Operating temperature, min.	-50 °C	Operating temperature, max.	75 °C
Temperature range, installation, min.	-30 °C	Temperature range, installation, max.	75 °C

Connectable conductors

Clamping range, rated connection, min.	0.2 mm²	Clamping range, rated connection, max.	1.5 mm²
Wire connection cross section AWG, min.	AWG 24	Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm²	Solid, max. H05(07) V-U	1.5 mm²
Stranded, max. H07V-R	1 mm²	Flexible, min. H05(07) V-K	0.2 mm²
Flexible, max. H05(07) V-K	1.5 mm²	w. wire end ferrule, DIN 46228 pt 1, min	0.2 mm²
w. wire end ferrule, DIN 46228 pt 1, max.	1 mm²	w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm²
w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm²	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)	2.2 A	Rated current, max. no. of poles (Tu=20°C)	2 A
Rated current, number of poles (Tu=40°C), min	2.2 A	Rated current, number of poles (Tu=40°C), max.	2 A
Rated voltage for surge voltage class pollution degree II/2	200 V	Rated voltage for surge voltage class pollution degree III/2	160 V
Rated voltage for surge voltage class pollution degree III/3	50 V	Rated impulse voltage for surge voltage classpollution degree II/2	2.5 kV
Rated impulse voltage for surge voltage classpollution degree III/2	2.5 kV	Rated impulse voltage for surge voltage classcontamination degree III/3	0.8 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)	
			50 V
Rated current (use group B)	5 A	Rated voltage (use group D)	50 V
Rated current (use group D)	5 A	Wire cross-section, AWG, min.	AWG 22
Wire cross-section, AWG, max.	AWG 16		

UL 1059 rating data

Institute (UR)		Rated voltage (use group B)	
			50 V
Rated current (use group B)	5 A	Rated voltage (use group D)	50 V
Rated current (use group D)	5 A	Wire cross-section, AWG, min.	AWG 24
Wire cross-section, AWG, max.	AWG 16		

Classifications

ETIM 3.0	EC001284	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		

Notes

Notes

- Additional colours on request
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Conductor < 0.2 mm² tinned
- Max. outer diameter of the conductor: 2.9 mm
- 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

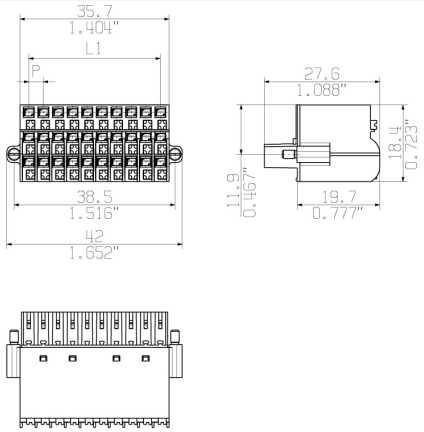
Approvals

ROHS	Conform

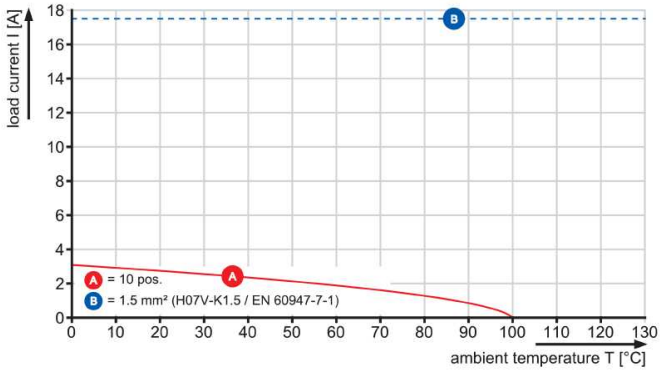
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Zeichnungen



BL-I/O 3.5/10/180 - SL 3.50/../90



BL-I/O 3.5/30/180 - SL 3.50/../90

