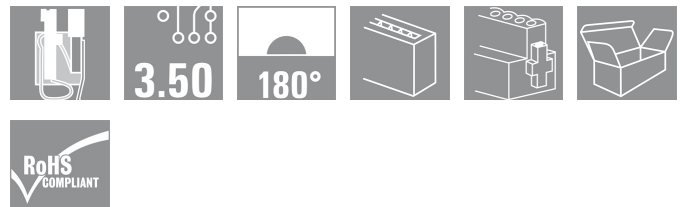


BL/SL 3.50 series
BL-I/O 3.50/30FP NPN LED SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
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Female connector with Push In connection as plug-in connection level for decentralised I/O electronics; used in conjunction with male connectors with 3.50 mm pitch.

- 0.20 - 1.5 mm² (IEC) / 22 - 16 AWG (UL)
- 50 V (IEC) / 50 V (UL)
- 2.2 A (IEC) / 5 A (UL)

General ordering data

Order No.	1967190000
Type	BL-I/O 3.50/30FP NPN LED SN BK BX
Version	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 30, 180°, PUSH IN, Clamping range, rated connection, max.: 1.5 mm ² , Box
GTIN (EAN)	4032248660889
Qty.	20 pc(s).
Product data	IEC: / 2.2 A / 0.2 - 1.5 mm ² UL: 50 V / 5 A / AWG 22 - AWG 16
Packaging	Box

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Technical data
Dimensions

Net weight 23 g

System parameters

Product family	BL/SL 3.50 series	Conductor connection system	PUSH IN
Outgoing direction of conductor	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	30
Number of rows	1	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 to RAL 9011	Flammability class UL 94	V-0
Contact material	Copper alloy	Contact surface	tinned
Continuous operating temp., min.	-25 °C	Continuous operating temp., max.	100 °C

Connectable conductors

Clamping range, rated connection, min.	0.2 mm ²	Clamping range, rated connection, max.	1.5 mm ²
Wire connection cross section AWG, min.	AWG 24	Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	1.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm ²
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 III/3	50 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	0.8 kV
Short-time withstand current resistance	3 x 1s with 120 A		

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		

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Technical data
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 22

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 6.0	27-26-07-04
eClass 7.0	27-44-04-02		

Notes

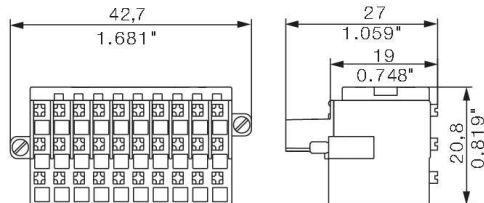
Notes

- LED operating voltage: 10 - 30V; LED operating current: 0.8mA at 24V
- UL approval values for "factory wiring"
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- 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. O.D. of 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.
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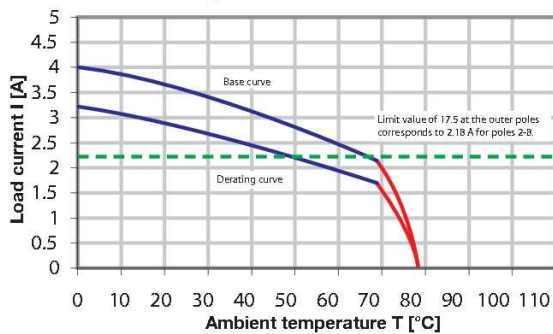
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Drawings



BL-I/O / 10-pole 24 V



BL-I/O / 30-pole 24 V

