



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Product image**















1





High-temperature-resistant male header, 3.50 mm pitch.

- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all soldering methods
- Pin length 1.5 mm optimised for reflow soldering methods
- Packed either in a box (BX) or tape-on-reel (RL)
- Male header can be coded

## **General ordering data**

Version	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 3.50 mm, Number of poles: 8, 90°, Solder pin length (I): 3.2 mm, tinned, black, Box
Order No.	<u>1841920000</u>
Туре	SL-SMT 3.50/08/90LF 3.2SN BK BX
GTIN (EAN)	4032248353279
Qty.	48 items
Product data	IEC: 320 V / 15 A UL: 300 V / 10 A
Packaging	Вох



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# **Technical data**

# **Approvals**

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ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

# **Dimensions and weights**

Depth	11.1 mm	Depth (inches)	0.437 inch
Height	10.7 mm	Height (inches)	0.4213 inch
Height of lowest version	7.5 mm	Width	35 mm
Width (inches)	1.378 inch	Net weight	3.48 g

## **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,036 kg CO2 eq.

## **System specifications**

Product family	OMNIMATE Signal - series BL/SL 3.50	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	3.50 mm
Pitch in inches (P)	0.138 "	Outgoing elbow	90°
Number of poles	8	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Solder pin length tolerance	0 / -0.3 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 mm
Solder eyelet hole diameter (D)	1.4 mm	Solder eyelet hole diameter tolerance (D)+ 0,1 mm	
Outside diameter of solder pad	2.3 mm	Template aperture diameter	2.1 mm
L1 in mm	24.50 mm	L1 in inches	0.965 "
Number of rows	1	Pin series quantity	1
Touch-safe protection acc. to DIN VDE 57 106	finger-safe plugged/ back- of-hand-safe unplugged	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
Protection degree	IP10	Volume resistance	≤5 mΩ
Can be coded	Yes	Plugging cycles	25
Plugging force/pole, max.	6 N	Pulling force/pole, max.	6 N

### **Material data**

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of solder connection	23 μm Ni / 57 μm Sn
Layer structure of plug contact	23 µm Ni / 57 µm Sn	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C		

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# **Technical data**

Rated	data	200	40	IEC
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tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	15 A
Rated current, max. number of poles (Tu=20°C)	12 A	Rated current, min. number of poles (Tu=40°C)	13 A
Rated current, max. number of poles (Tu=40°C)	10 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 100 A

## Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1176845
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

### Rated data acc. to UL 1059

Institute (UR)	UR	Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	10 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

# **Packing**

Packaging	Box	VPE length	341.00 mm
VPE width	132.00 mm	VPE height	21.00 mm

Important note	
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.
Notes	<ul> <li>Gold-plated contact surfaces on request</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>Diameter of solder eyelet D = 1.4+0.1mm</li> <li>Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles</li> <li>P on drawing = pitch</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> <li>In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity</li> </ul>

## Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637

70%, 36 months

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# **Technical data**

ETIM 10.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01	ECLASS 12.0	27-46-02-01
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

# Weidmüller **3**

# SL-SMT 3.50/08/90LF 3.2SN BK BX

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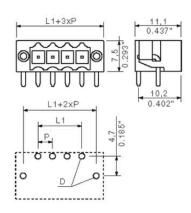
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# **Drawings**

# **Product image**



# **Dimensional drawing**



L1 = 24.50 mm | P = 3.50 mm





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# Accessories

### **Coding elements**



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

### General ordering data

Туре	BL SL 3.5 KO OR	Version
Order No.	1693430000	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190867447	of poles: 1
Qty.	100 ST	

#### **LED Light guides**



Effective: the link between LED and front panel. Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.

The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction). Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.

The advantages compared to conventional solutions:

- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- Easy to maintain correct clearance and creepage distance
- Can be partitioned for smaller pole numbers The result: simplified manufacturing process, reduced costs and simplified design

### **General ordering data**

Туре	SL 3.5 FLA 1.5/8	Version
Order No.	<u>1597510000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190127541	Number of poles: 1
Qty.	50 ST	
Туре	SL 3.5 FLA 2.3/8	Version
Type Order No.	SL 3.5 FLA 2.3/8 1597520000	Version PCB plug-in connector, Accessories, Flood-light display, Transparent,
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# Accessories

Туре	SL 3.5 FLA 4.0/8	Version
Order No.	<u>1597530000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190075699	Number of poles: 1
Qty.	50 ST	
Туре	SL 3.5 FLA 1.5/1.75/8	Version
Order No.	<u>1597630000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190148386	Number of poles: 1
Qty.	50 ST	
<b></b> ,.		
Туре	SL 3.5 FLA 2.3/1.75/8	Version
	SL 3.5 FLA 2.3/1.75/8 1597640000	Version PCB plug-in connector, Accessories, Flood-light display, Transparent,
Туре		
Type Order No.	1597640000	PCB plug-in connector, Accessories, Flood-light display, Transparent,
Type Order No. GTIN (EAN)	<u>1597640000</u> 4008190011321	PCB plug-in connector, Accessories, Flood-light display, Transparent,
Type Order No. GTIN (EAN) Qty.	1597640000 4008190011321 25 ST	PCB plug-in connector, Accessories, Flood-light display, Transparent, Number of poles: 1
Type Order No. GTIN (EAN) Oty. Type	1597640000 4008190011321 25 ST SL 3.5 FLA 4.0/1.75/8	PCB plug-in connector, Accessories, Flood-light display, Transparent, Number of poles: 1  Version

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## **General ordering data**

Туре	BL SL 3.5 KO SW	Version
Order No.	<u>1610100000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190187637	of poles: 1
Qty.	100 ST	

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