



Klingenbergstraße 26 D-32758 Detmold Germany

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### **Product image**















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Similar to illustration

Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

#### **General ordering data**

Version         PCB plug-in connector, male header, Dovetails for fixing blocks, THT solder connection, 7.50 mm, Number of poles: 7, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box           Order No.         1628520000           Type         SL 7.50/07/90B 3.2SN OR BX           GTIN (EAN)         4008190201326           Oty.         50 items           Product data         IEC: 800 V / 18.5 A UL: 300 V / 15 A           Packaging         Box			
fixing blocks, THT solder connection, 7.50 mm, Number of poles: 7, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box  Order No. 1628520000  Type SL 7.50/07/90B 3.2SN OR BX  GTIN (EAN) 4008190201326  Oty. 50 items  Product data IEC: 800 V / 18.5 A UL: 300 V / 15 A			
Type SL 7.50/07/90B 3.2SN OR BX GTIN (EAN) 4008190201326  Oty. 50 items Product data IEC: 800 V / 18.5 A UL: 300 V / 15 A	Version	fixing blocks, THT solder connection, 7.50 mm, Number of poles: 7, 90°, Solder pin length (I): 3.	
GTIN (EAN) 4008190201326  Qty. 50 items  Product data IEC: 800 V / 18.5 A	Order No.	<u>1628520000</u>	
Oty. 50 items  Product data IEC: 800 V / 18.5 A  UL: 300 V / 15 A	Туре	SL 7.50/07/90B 3.2SN OR BX	
Product data IEC: 800 V / 18.5 A UL: 300 V / 15 A	GTIN (EAN)	4008190201326	
UL: 300 V / 15 A	Qty.	50 items	
Packaging Box	Product data	•	
	Packaging	Вох	





#### Weidmüller Interface GmbH & Co. KG

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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	12 mm	Depth (inches)	0.4724 inch
Height	11.7 mm	Height (inches)	0.4606 inch
Height of lowest version	8.5 mm	Net weight	3.68 g

### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,033 kg CO2 eq.

#### **System specifications**

Product family	OMNIMATE Signal - series BL/SL 7.50	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	7.50 mm
Pitch in inches (P)	0.295 "	Outgoing elbow	90°
Number of poles	7	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter toler	rance (D)+ 0,1 mm	L1 in mm	45.00 mm
L1 in inches	1.772 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged
Volume resistance	4.50 mΩ	Can be coded	Yes

#### **Material data**

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

#### Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	18.5 A
Rated current, max. number of poles (Tu=20°C)	17 A	Rated current, min. number of poles (Tu=40°C)	16 A
Rated current, max. number of poles (Tu=40°C)	14.5 A	Rated voltage for surge voltage class / pollution degree II/2	800 V
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree III/3	500 V

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# **Technical data**

Rated impulse voltage for surge voltage 6 kV class/ pollution degree II/2	Rated impulse voltage for surge voltage 6 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 6 kV	Short-time withstand current resistance 3 x 1s with 120 A
class/ contamination degree III/3	

#### Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	15 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)	15 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details -		

#### **Packing**

Packaging	Box	VPE length	226.00 mm
VPE width	71.00 mm	VPE height	60.00 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	Additional variants on request     Gold-plated contact surfaces on request

- Rated current related to rated cross-section & min. No. of poles.
- Rated voltage for 7.62 mm pitch: II/2 = 1000 V / 6 kV
- 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.
- 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
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

#### Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
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 **₹**

# **SL 7.50/07/90B 3.2SN OR BX**

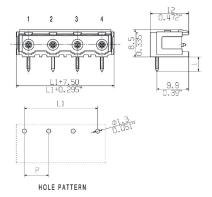
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# **Drawings**

## **Dimensional drawing**





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# Accessories

#### **Blocks for PCB mounting**





Minor component, major effect:

Clip-on attachment elements increase the mechanical resilience of the whole plug connection by

- securing the male connectors to the circuit board
- providing a vibration-proof connection between the sockets and the male connectors

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- · Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

- · Extremely resilient for frequent fastening operations
- · Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

#### **General ordering data**

Туре	SLA BB12R SW
Order No.	<u>1626880000</u>
GTIN (EAN)	4008190198213
Qty.	100 ST

Version

PCB plug-in connector, Accessories, Mounting block, black, Number

of poles: 0

#### **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**

Type SL FLA 2,3/1
Order No. 1636670000
GTIN (EAN) 4008190409975
Qty. 100 ST

Version

PCB plug-in connector, Accessories, Flood-light display, Transparent,

Number of poles: 1



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# **Accessories**

Type	SL FLA 2,3/24	Version
Order No.	<u>1636680000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190409968	Number of poles: 1
Qty.	10 ST	

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#### **General ordering data**

Type	SLA BB11R SW	Version
Order No.	<u>1692340000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190864965	of poles: 0
Qty.	20 ST	
Туре	SLA BB1R OR	Version
Order No.	<u>1723430000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190365981	of poles: 0
Qty.	20 ST	
Туре	SLA BB2R OR	Version
Order No.	1723440000	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190365998	of poles: 0
Qty.	20 ST	
Туре	SLA BB5R OR	Version
Order No.	<u>1723460000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190366018	of poles: 0
Qty.	20 ST	
Туре	SLA BB6R OR	Version
Order No.	<u>1723470000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190366025	of poles: 0
Qty.	20 ST	
Туре	SLA BB1R SW	Version
Order No.	<u>1723480000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190366032	of poles: 0
Qty.	20 ST	
Туре	SLA BB2R SW	Version
Order No.	<u>1723490000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190366049	of poles: 0
Qty.	20 ST	

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# **Accessories**

Type	SLA BB5R SW	Version
Order No.	<u>1723510000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190366063	of poles: 0
Qty.	20 ST	
Туре	SLA BB6R SW	Version
Type Order No.	SLA BB6R SW 1723520000	Version PCB plug-in connector, Accessories, Mounting block, black, Number

#### **Additional accessories**



No task is too small when creating the perfect solution. Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs ensure reliable pick-up from diagnostic sockets
- Cross-connectors ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements divide a large number of male connectors into several separate socket connector channels
- Locks and clips optional vibration-resistant clipon connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

#### **General ordering data**

Туре	SL AT SW	Version
Order No.	<u>1770240000</u>	PCB plug-in connector, Accessories, Spacer, black, Number of poles: 1
GTIN (EAN)	4032248117710	
Qty.	100 ST	

#### **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.

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# **Accessories**

#### **General ordering data**

Type	BLZ/SL KO BK BX	Version
Order No.	<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	
Туре	BLZ/SL KO OR BX	Version
Type Order No.	BLZ/SL KO OR BX 1573010000	Version PCB plug-in connector, Accessories, Coding element, orange, Number
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#### **General ordering data**

	<b>9</b>	
Туре	SL FLA 1.5/1	Version
Order No.	<u>1580100000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190152475	Number of poles: 1
Qty.	100 ST	
Туре	SL FLA 3.8/1	Version
Order No.	<u>1580110000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190050740	Number of poles: 1
Qty.	100 ST	
Туре	SL FLA 9.0/1	Version
Order No.	<u>1580120000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190031909	Number of poles: 1
Qty.	100 ST	





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# **Accessories**

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#### **General ordering data**

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Type	SLA BB12R OR	Version
Order N	o. <u>1593450000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (E.	AN) 4008190122164	of poles: 0
Qty.	100 ST	

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#### **General ordering data**

Туре	SL AT OR	Version
Order No.	<u>1598300000</u>	PCB plug-in connector, Accessories, Spacer, orange, Number of poles:
GTIN (EAN)	4008190189266	1
Qty.	100 ST	

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### **General ordering data**

Туре	SLA BB11R OR	Version
Order No.	1604120000	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190182977	of poles: 0
Qty.	20 ST	