

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

















Similar to illustration

Angled, two-tier pin header available as closed-sided or with flange (open-sided pin headers on request). Pin headers with 3.5mm pins are designed for wave soldering and are packaged in a box. They can be screwed on to the PCB. The pin headers provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, Number of poles: 8, 90°, Solder pin length (I): 3.5 mm, tinned, black, Box
Order No.	<u>1728000000</u>
Туре	S2L 3.50/08/90G 3.5SN BK BX
GTIN (EAN)	4032248039494
Qty.	120 pc(s).
Product data	IEC: 250 V / 10 A
	UL: 150 V / 10 A
Packaging	Box

Creation date January 14, 2022 12:51:27 AM CET



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Technical data

Dimensions and weights

Depth	14.2 mm	Depth (inches)	0.559 inch
Height	14 mm	Height (inches)	0.551 inch
Height of lowest version	10.5 mm	Width	15.4 mm
Width (inches)	0.606 inch	Net weight	1.1 g

System specifications

Product family	OMNIMATE Signal - series B2L/S2L 3.50 - 2-row	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Outgoing elbow	90°
Number of poles	8	Number of solder pins per pole	1
Solder pin length (I)	3.5 mm	Solder pin dimensions	d = 1.0 mm, Octagonal
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (I	D)+ 0,1 mm
L1 in mm	10.5 mm	L1 in inches	0.413 inch
Number of rows	1	Pin series quantity	2
Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch	Touch-safe protection acc. to DIN VDE 0470	IP 10
Can be coded	Yes	Plugging force/pole, max.	5 N
Pulling force/pole, max.	4 N		

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of solder connection	23 μm Ni / 57 μm Sn glossy	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		

Rated data acc. to IEC

tested acc. to standard		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(Tu=20°C)	10 A
Rated current, max. number of poles		Rated current, min. number of poles	
(Tu=20°C)	10 A	(Tu=40°C)	9 A
Rated current, max. number of poles		Rated voltage for surge voltage class /	
(Tu=40°C)	8.5 A	pollution degree II/2	250 V
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /	
pollution degree III/2	125 V	pollution degree III/3	80 V
Rated impulse voltage for surge voltage		Rated impulse voltage for surge voltage	
class/ pollution degree II/2	2.5 kV	class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage		Short-time withstand current resistance	
class/ contamination degree III/3	2.5 kV		3 x 1s with 77 A



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25 mm

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Technical data

Rated data acc. to CSA

Institute (CSA)	SP:	Certificate No. (CSA)	
Rated voltage (Use group B / CSA)	150 V	Rated current (Use group B / CSA)	200039-1488444 5 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.	nated current (ose group b) COA	

Rated data acc. to UL 1059			
Institute (UR)	<i>71</i> 2	Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	150 V	Rated voltage (Use group C / UL 1059)	50 V
Rated current (Use group B / UL 1059)	10 A	Rated current (Use group C / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
Packaging	Вох	VPE length	352 mm

VPE width Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	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		

VPE height

ECLASS 11.0	27-46-02-01
Important note	
IDO (''	
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 colours on request
	Gold-plated contact surfaces on request
	Spacing between rows: see hole layout
	Rated current related to rated cross-section & min. No. of poles.
	• P on drawing = pitch

136 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.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months



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Technical data

Approvals

Approvals

ROHS	Conform
UL File Number Search	E60693

Downloads

Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN
	MB DEVICE MANUF. EN
	FL DRIVES DE
	FL BUILDING SAFETY EN
	FL APPL LED LIGHTING EN
	FL INDUSTR.CONTROLS EN
	FL MACHINE SAFETY EN
	FL HEATING ELECTR EN
	<u>FL APPL_INVERTER EN</u>
	FL BASE STATION EN
	FL ELEVATOR EN
	FL POWER SUPPLY EN
	FL 72H SAMPLE SER EN
	PO OMNIMATE EN
	PO OMNIMATE EN



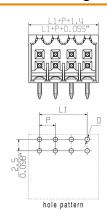
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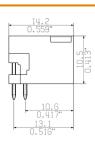
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Drawings

Dimensional drawing







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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	B2L/S2L 3.50 KO BK BX	Version	Product data	Packaging
Order No.	<u>1849740000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248378203	of poles: 1		
Qty.	100 pc(s).			
Туре	B2L/S2L 3.50 KO OR BX	Version	Product data	Packaging
Type Order No.	B2L/S2L 3.50 KO OR BX 1849730000	Version PCB plug-in connector, Accessories, Coding element, orange, Numbe		Packaging Box
	· ·			0 0



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Accessories

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.

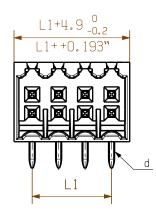
The advantages compared to conventional solutions:

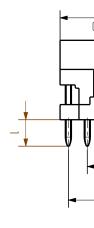
- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- Easy to maintain correct clearance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

The result: simplified manufacturing process, reduced costs and simplified design

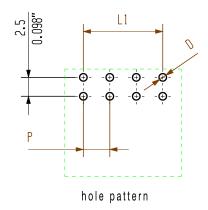
General ordering data

Туре	S2L/S2C 3.5 FLA 20/10	Version	Product data	Packaging
Order No.	<u>1699580000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Вох
GTIN (EAN)	4008190891350	Number of poles: 10		
Qty.	100 pc(s).			









For the mounting of PCBs, it should be note rated data given in the catalogue relates on connection elements. The neccessary creep clearance paths must be observed in connet the respective applicant in accordance to V The current-carrying capacity and pitch tole be determined according to DIN IEC 326 pa

Weidmueller connectors are tested to the D standard, and are valid for its field of appli Provided that the connectors are used to th purpose, all requirements with respect to th occuring of electrical, mechanical, thermic corrosive stress will be satisfied.



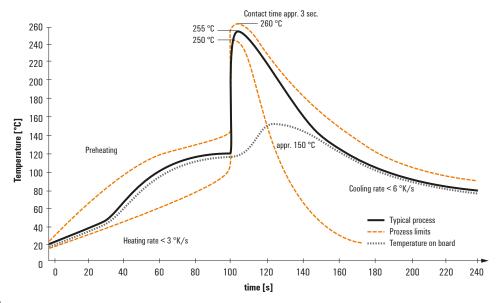
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

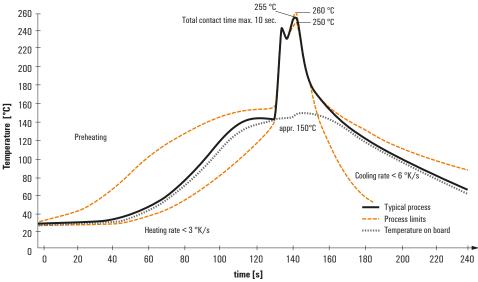
Klingenbergstraße 16 D-32758 Detmold Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

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15602-04-08-21 ELM023100 BA311TU BA411SU MV-152 MV-252-D MV-253/NCNOC MV-254-D MV-255 MV-462 MV-493 MVE
252 MVE-253 MVE-273 MVEB-153 1700096 1705142 1712417 1713020 1713088 1745195 1760594 1776118-2 1790852 1-796689-8

1-796692-6 1800001 1800114 1995279 20020314-C121B01LF CB2-12 KP03215000J0G KP04215000J0G S451 282802-2 29.007 29.116

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