

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

















Similar to illustration

Double-level, staggered pin header for wave soldering at 3.50 mm pitch. They are available in closed and flanged versions. The male connectors 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: 18, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1890620000</u>
Туре	SLD 3.50V/18/90G 3.2SN OR BX
GTIN (EAN)	4032248499649
Qty.	20 pc(s).
Product data	IEC: 200 V / 10.5 A UL: 300 V / 8 A
Packaging	Box

Creation date March 26, 2021 5:23:29 AM CET



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Technical data

Dimensions and weights

Depth	24.2 mm	Depth (inches)	0.953 inch
Height	25.2 mm	Height (inches)	0.992 inch
Height of lowest version	22 mm	Net weight	11.9 g
Width	32.9 mm	Width (inches)	1.295 inch

System specifications

Product family	OMNIMATE Signal - series BL/SL 3.50	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	18	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
L1 in mm	28 mm	L1 in inches	1.102 inch
Number of rows	2	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
Volume resistance	≤5 mΩ	Can be coded	Yes
Plugging force/pole, max.	10 N	Pulling force/pole, max.	8 N

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact material	CuSn	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	15000001115001001	Rated current, min. number of poles	10 = 1
	IEC 60664-1, IEC 61984	(Tu=20°C)	10.5 A
Rated current, max. number of poles (Tu=20°C)	8 A	Rated current, min. number of poles (Tu=40°C)	9 A
Rated current, max. number of poles (Tu=40°C)	7 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	125 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 80 A

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	8 A	Rated current (Use group D / CSA)	8 A



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Technical data

Rated data acc. to UL 1059

Institute (UR)	<i>21</i> 1.	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)	8 A	Rated current (Use group D / UL 1059)	8 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packaging	Box	VPE length	63 mm
VPE width	100 mm	VPE height	115 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	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

Important note	
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized

Notes

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- 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.

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.

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

Annrovals

Conformity **Engineering Data**

Approvals		
ROHS	Conform	
UL File Number Search	E60693	

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Approval/Certificate/Document of

STEP

Declaration of the Manufacturer



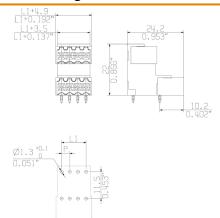
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Drawings

Dimensional drawing



L1+0.275

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· (+)· ·(+)·

L1+7 L1+0.275"

·(+)· (

+0.1

Ø1.3 0

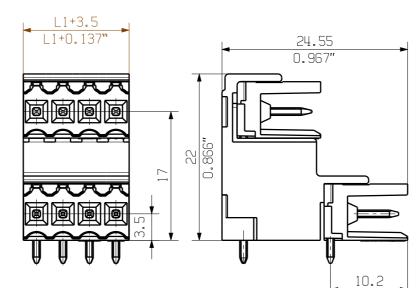
0.051"

+0.1 Ø2.4 0 0.09"

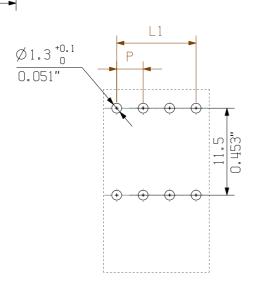
AUSFUEHRUNG/TYPE: SLD 3.50V/../90F.. AUSFUEHRUNG/TYPE SLD 3.50V/../90.. L1+3.5 L1+0.413" 24.55 L1+0.137" 0.967

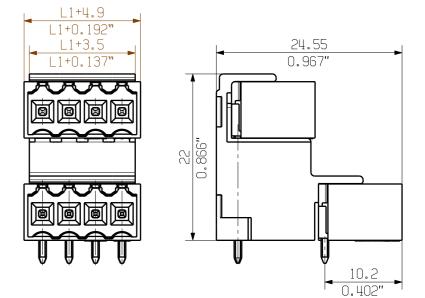
10.2

0.402"

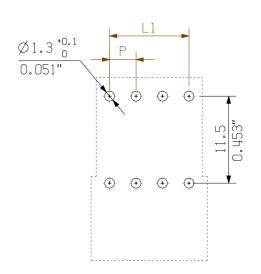


0.402"





AUSFUEHRUNG/TYPE: SLD 3.50V/../90G..



46	80,50	77,00	81,90	87,50
42	73,50	70,00	74,90	80,50
38	66,50	63,00	67,90	73,50
34	59,50	56,00	60,90	66,50
30	52,50	49,00	53,90	59,50
26	45,50	42,00	46,90	52,50
22	38,50	35,00	39,90	45,50
18	31,50	28,00	32,90	38,50
14	24,50	21,00	25,90	31,50
10	17,50	14,00	18,90	24,50
6	10,50	7,00	11,90	17,50
n	L	L1	L2	L3

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to IEC 60326 part 3 very fine.

Weidmueller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

General tolerance: DIN ISO 2768-mK					. Cat.no.:.				
	99080/5 20.10.17 HE	LIS_MA 06	We	idmü	lle	r Z	3 2 T	1372	2 15 Issue no.
	Modification					Sheet 00	of 00	sheets	
		Date	Name						
	Drawn	13.08.2004	LANG_T	SLD 3.50V//90					
	Daananaihla		LANC T	OLD 0.30 V//30					

Responsible LANG_T Scale: 2:1 01.11.2017 | HELIS MA Checked Supersedes: Approved HECKERT_M Product file: SLD 3.50V

STIFTLEISTE MALE HEADER

7302



Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany

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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.