

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com























High-temperature-resistant, straight, open pin header. Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

Version	PCB plug-in connector, male header, open side, THT/THR solder connection, 5.08 mm, Number of poles: 12, 90°, Solder pin length (I): 3.2 mm, tinned. black. Box
Order No.	<u>2503300000</u>
Type	SL-SMT 5.08HC/12/90V 3.2SN BK BX
GTIN (EAN)	4050118517071
Qty.	50 pc(s).
Product data	IEC: 400 V / 27.5 A
	UL: 300 V / 18.5 A
Packaging	Box

Creation date March 29, 2021 6:05:45 PM CEST



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	12 mm	Depth (inches)	0.472 inch
Height	11.7 mm	Height (inches)	0.461 inch
Height of lowest version	8.5 mm	Net weight	5.144 g
Width	60.96 mm	Width (inches)	2.4 inch

System specifications

Product family	OMNIMATE Signal - series	Type of connection				
,	BL/SL 5.08	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Board connection			
Mounting onto the PCB	THT/THR solder	Pitch in mm (P)				
	connection		5.08 mm			
Pitch in inches (P)	0.2 inch	Outgoing elbow	90°			
Number of poles	12	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 eyelet hole diameter (D)	1.5 mm			
Solder eyelet hole diameter tolera	ance (D)+ 0,1 mm	L1 in mm	55.88 mm			
L1 in inches	3.4 inch	Pin series quantity	2			
Volume resistance	≤5 mΩ	Can be coded	Yes			
Plugging force/pole, max.	9 N	Pulling force/pole, max.	7 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	CuMg
Contact surface		Layer structure of solder connection	13 µm Ni / 24 µm Sn
	tinned		
	unnea		matt
Layer structure of plug contact	13 µm Ni / 24 µm Sn	Storage temperature, min.	matt
Layer structure of plug contact		Storage temperature, min.	-40 °C
Layer structure of plug contact Storage temperature, max.	13 μm Ni / 24 μm Sn	Storage temperature, min. Operating temperature, min.	
	13 μm Ni / 24 μm Sn matt		-40 °C

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	27.5 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	24 A
Rated current, max. number of poles (Tu=40°C)	16.5 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV		

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)	18.5 A	Rated current (Use group D / CSA) 18.5 A



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Rated data acc. to UL 1059

ETIM 6.0 EC002637 ETIM 7.0 EC002637 ECLASS 9.0 27-44-04-02 ECLASS 9.1 27-44-04-02 Important note 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 propertie in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Notes Gold-plated contact surfaces on request Rated current related to rated cross-section & min. No. of poles. Diameter of solder eyelet D = 1.4+0.1mm Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles 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. Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month	Rated data acc. to UL 1059							
Rated voltage (Use group B / UL 1059) 300 V Rated current (Use group B / UL 1059) 18.5 A Reference to approval values Specifications are maximum values, details see approval certificate. Packing Packaging Box VPE length O m VPE height O m Classifications ETIM 6.0 EC02637 ETIM 7.0 EC02637 ECLASS 9.0 27-44-04-02 ECLASS 9.0 27-44-04-02 ECLASS 9.1 27-44-04-02 ECLASS 11.0 27-46-02-01 Important note PC 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-A61 O' Class 2 Further claims on the products can be evaluated on request. Notes - Gold-plated contact surfaces on request - Rated current related to rated cross-section & min. No. of poles. - Diameter of solder eyelet D = 1.5 + 0.1 mm, from 9 poles - 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. - Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month Approvals Approvals Conform								
Rated voltage (Use group B / UL 1059) 300 V Rated current (Use group D / UL 1059) 300 V 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 O m VPE height O m 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 27-44-04-02 Important note PC 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 propertie in accordance with PC-A910**Class 2**. Further claims on the products can be evaluated on request. P Solder gyelet diameter D = 1.5 + 0.1 mm, from 9 poles P on drawing = pitch P ated 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. P I Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month Approvals ROMS Conform	Institute (UR)		Certificate No. (UR)					
Rated voltage (Use group B / UL 1059) 300 V Rated current (Use group D / UL 1059) 300 V 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 O m VPE height O m 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 27-44-04-02 Important note PC 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 propertie in accordance with PC-A910**Class 2**. Further claims on the products can be evaluated on request. P Solder gyelet diameter D = 1.5 + 0.1 mm, from 9 poles P on drawing = pitch P ated 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. P I Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month Approvals ROMS Conform		u						
Rated voltage (Use group B / UL 1059) 300 V Rated current (Use group D / UL 1059) 300 V 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 O m VPE width O m VPE height O m Classifications ETIM 6.0 EC002637 ETIM 7.0 EC002637 ECLASS 9.0 27-44-04-02 ECLASS 11.0 27-44-04-02 ECLASS 10.0 27-44-04-02 ECLASS 11.0 27-44-04-02 Important note PC 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 propertie in accordance with PC-A610 "Class 2". Further claims on the products can be evaluated on request. **Rated current (Use group D / UL 1059) 300 V Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / UL 1059) 10 A **Rated current (Use group D / Us 10 A **Rated current (Use group D / Us 10 A **Rated current (Use group D / Us 10 A **Rated current (Use group D / Us 10 A **Rated current (Use group D / Us 10 A **Rated Current (Use group D / Us 10 A **Rated Current (Use group D / Us 10 A **Rated Current (Use group D / Us 10 A **Rated Current (Use group D / Us 10 A **Rated Current (Use group D / Us 10 A **Rated Current (Use group D / Us 10 A **R		143		F00000				
Reference to approval values Reference to approval to appro	Pated voltage (Use group R / III 1059)	200 V	Pated voltage (Use group D. / III. 1050)					
Reference to approval values Specifications are maximum values, details - see approval certificate. Packing Packaging Box VPE length O m VPE width O m VPE height O m Classifications ETIM 6.0 EC002637 ETIM 7.0 EC02637 ECLASS 9.0 27-44-04-02 ECLASS 9.1 27-44-04-02 ECLASS 9.0 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 standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-x6-10 *Class 2.* Further claims on the products can be evaluated on request. Notes • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles • P on drawing = pitch • Rated data refer only to the component itself. Clearance and creepage distances to other components are the 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 month Approvals Approvals Conform								
Packing Packaging Box VPE length O m VPE width O m VPE height O m 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 standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-01 O'Class 27. Further claims on the products can be evaluated on request. Notes Golder-plated contact surfaces on request - Rated current related to rated cross-section & min. No. of poles. - Diameter of solder eyelet D = 1.4+0.1 mm - Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles - 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. - Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month. Approvals ROHS Conform			nated carrent (030 group 27 02 1000)	1074				
Packaging Box VPE length O m VPE width O m VPE height O m 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 PC conformity 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**1. Further claims on the products can be evaluated on request. Notes • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1 mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles • 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. • Long term storage of the product with average temperature of 50 *C and average humidity 70%, 36 month. Approvals Approvals ECLASS 10.0 EC002637 ECLASS 11.0 27-44-04-02 ECLASS 11.0 20-14-14-01-14-14-14-14-14-		maximum values, details -						
VPE height	Packing							
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 standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative propertie in accordance with IPC-A6-10 "Class 2: Further claims on the products can be evaluated on request. Notes • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles • 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. • Long term storage of the product with average temperature of 50 "C and average humidity 70%, 36 months.) Approvals Approvals Conform	Packaging	Box	VPE length	0 m				
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 PC 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 propertie in accordance with IPC-A-610 **Class 2". Further claims on the products can be evaluated on request. Notes Gold-plated contact surfaces on request Rated current related to rated cross-section & min. No. of poles. Diameter of solder eyelet D = 1.4+0.1mm Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles 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. Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month. Approvals Approvals Conform	VPE width							
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 PC 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 propertie in accordance with IPC-A-610 **Class 2". Further claims on the products can be evaluated on request. Notes Gold-plated contact surfaces on request Rated current related to rated cross-section & min. No. of poles. Diameter of solder eyelet D = 1.4+0.1mm Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles 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. Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month. Approvals Approvals Conform	Classifications							
ECLASS 9.0 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 standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative propertie in accordance with IPC-A-610 *Class 2*. Further claims on the products can be evaluated on request. Notes • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles • 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. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month. Approvals Approvals Conform								
ECLASS 9.0 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 standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative propertie in accordance with IPC-A-610 *Class 2*. Further claims on the products can be evaluated on request. Notes • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles • 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. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month. Approvals Approvals Conform	ETIM 6.0	EC002637	ETIM 7.0	EC002637				
Important note 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 propertie in accordance with IPC-A-6.10 "Class 2". Further claims on the products can be evaluated on request. Notes Gold-plated contact surfaces on request	ECLASS 9.0							
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 propertie in accordance with IPC-A6-10 "Class 2". Further claims on the products can be evaluated on request. Notes • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles • 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. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months. Approvals Conform	ECLASS 10.0	27-44-04-02	ECLASS 11.0	27-46-02-01				
standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative propertie in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Notes • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles • 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. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months. Approvals ROHS Conform	Important note							
standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative propertie in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Notes • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles • 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. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months. Approvals ROHS Conform	IPC conformity	Conformity: The products are de	eveloped manufactured and delivered according	international recognized				
Rated current related to rated cross-section & min. No. of poles. Diameter of solder eyelet D = 1.4+0.1mm Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles 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. Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 month. Approvals ROHS Conform	ii C comornity	standards and norms and comp	ly with the assured properties in the data sheet	resp. fulfill decorative properties				
Diameter of solder eyelet D = 1.4+0.1mm Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles 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. Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months. Approvals Approvals Conform	Notes			•				
Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles 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. Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months. Approvals Approvals Conform		Rated current related to rated cross-section & min. No. of poles.						
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. Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months. Approvals Approvals Conform		• Diameter of solder eyelet D = 1.4+0.1mm						
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. Approvals Approvals Conform		• Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles						
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 month. Approvals Approvals Conform		• P on drawing = pitch						
Approvals Approvals Conform				ces to other components are to				
Approvals ROHS Conform		Long term storage of the prod	duct with average temperature of 50 °C and ave	rage humidity 70%, 36 months				
ROHS Conform	Approvals							
ROHS Conform								
	Approvals	<i>71</i> 2						
	ROHS	Conform						

Downloads

Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Engineering Data	STEP



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings

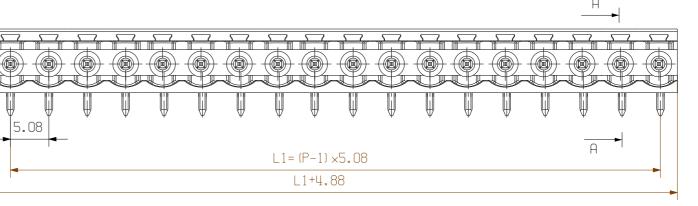
Product image

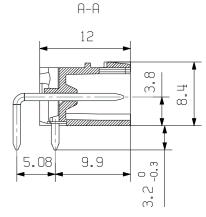


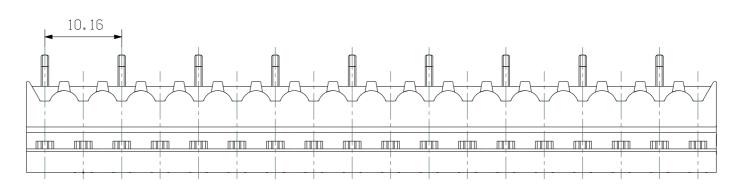
Product benefits



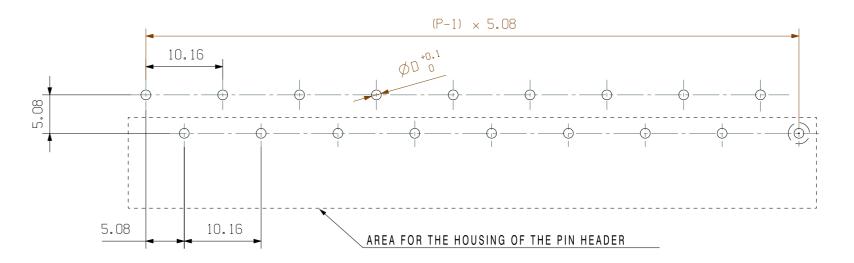
Safe power transmission Proven properties







HOLE PATTERN LAYOUTTOLERANCE ACC. IEC 326 PART 3



Scale: 2:1

Supersedes:

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.

The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.

The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

	D = 1,4mm BIS POLZAHL 8 /TILL POLE 8
VN:SL-SMT5.08HC/18/90V	D = 1.5mm ΔR POL7ΔHI 0-24 /FROM POLE

14.12.2016 HELIS MA

LANG T

Checked

Approved

SHOWN:SL-SMT5.08HC/18/90V D= 1,5mm AB POLZAHL 9-24 /FROM POLE 9-24					n L1	[mm]	L1 [Inch]				
Dalle	DIN ISO 2768-m							С	at.no.:		
ROMS	5.14.166 2766 III	85354/2 13.12.16 HE	-	We	eidmüll	ler i		3 Drawing no		516	10 Issue no.
		Modifi	cation					Sheet	01 0	of 01	sheets
			Date	Name							
	9	Drawn	26.06.2007	HERTEL_S	SL-S	МΤ	5 081	HC/	/ 9 0	V	
		Responsible		HERTEL_S	01-0	141 1	STIFTLE		., 50	, ,	•

Product file: SL-SMT 5.08

MALE HEADER

2,200 55,88 50,80 2,000 45,72 1,800 40,64 1,600 1,400 1,200

4,600

4,400

4,200 4,000

3.800

3,600

3,400

3,200

3,000

2,800

2,600

2,400

116,84

111,76 106,68

101,60 96,52

91,44

86,36

81,28

76,20 71,12

66,04 60,96

18

1,000 0,800 0,600

0,400 0,200

7313

35,56 30,48 25,40 20,32

15,24

3 10,16 5,08



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.



Recommended reflow soldering profile

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany

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



Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- · Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- · Maximum heating rate
- · Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3$ K/s. In parallel the solder paste is ,activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at \geq -6K/s solder is cured. Board and components cool down while avoiding cold cracks.