

Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26

D-32758 Detmold Germany

www.weidmueller.com

Product image





Similar to illustration

Two-tier SCD pin header for wave soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 180° (standing).
- Connections at the same level and with access that is flush over the front board.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

Version	PCB plug-in connector, male header, Flange, THT solder connection, 3.81 mm, Number of poles: 12, 180°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1030480000</u>
Туре	SCD 3.81/12/180F 3.2SN OR BX
GTIN (EAN)	4032248759620
Qty.	36 pc(s).
Product data	IEC: 320 V / 17.5 A
	UL: 300 V / 10 A
Packaging	Box

Creation date January 19, 2022 1:58:55 AM CET



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Technical data

Dimensions and weights					
			-		
Depth	22.7 mm	Depth (inches)		894 inch	
Height	25.1 mm	Height (inches)		988 inch	
Height of lowest version	21.9 mm	Width		3.25 mm	
Width (inches)	1.309 inch	Net weight	1:	2.55 g	
Environmental Product Comp	liance				
REACH SVHC	Lead 7439-92-1				
System specifications					
Product family	OMNIMATE Signal - series	BC/SC 3.81			
Type of connection	Board connection				
Mounting onto the PCB	THT solder connection				
Pitch in mm (P)	3.81 mm				
Pitch in inches (P)	0.15 inch				
Outgoing elbow	180°				
Number of poles	12				
Number of solder pins per pole	1				
Solder pin length (I)	3.2 mm				
Solder pin length tolerance	+0,02 / -0.2 mm				
Solder pin dimensions	d = 1.0 mm, Octagonal				
Solder pin dimensions = d tolerance	0 / -0,03 mm				
Solder eyelet hole diameter (D)	1.2 mm				
Solder eyelet hole diameter tolerance (I	D)+ 0,1 mm				
1 in mm	19.05 mm				
1 in inches	0.75 inch				
Number of rows	2				
Pin series quantity	2				
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch				
Touch-safe protection acc. to DIN VDE 0470	IP 20				
Volume resistance	≤5 mΩ				
Can be coded	Yes				
Plugging force/pole, max.	8 N				
Pulling force/pole, max.	5.5 N				
Tightening torque	Torque type		Mounting screw, PCB		
	Usage information		Tightening torque	min.	0.1 Nm
			3	max.	0.15 Nr
			Recommended screw	Part	PTSC K
				number	2.2X4.5
					WN141

Material data

Insulating material	PA GF	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 550	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

Technical data

Rated data acc. to IEC



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	Rated current, min. number of poles	
IEC 60664-1, IEC 61984		17.5 A
17 A	pollution degree II/2	320 V
160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
2.5 kV	Short-time withstand current resistance	3 x 1s with 76 A
200.1/	Pated ourrent // Iso group P / (SA)	11 A
300 V	hated current (Ose group B / CSA)	ПА
c Ru s	Certificate No. (cURus)	E60693
300 V	Rated voltage (Use group D / UL 1059)	300 V
10 A	Rated current (Use group D / UL 1059)	10 A
Specifications are maximum values, details - see approval certificate.	ls -	
Dev	V/DE longeth	1
Box	VPE length	1 mm
Box 1 mm	VPE length VPE height	1 mm 1 mm
1 mm	VPE height	1 mm
1 mm EC002637	VPE height ETIM 7.0	1 mm EC002637
1 mm	VPE height	1 mm
	160 V 2.5 kV 2.5 kV 300 V 300 V 300 V 10 A Specifications are maximum values, details -	IEC 60664-1, IEC 61984 (Tu=20°C) 17 A Rated voltage for surge voltage class / pollution degree II/2 160 V Rated voltage for surge voltage class / pollution degree III/3 2.5 kV Rated impulse voltage for surge voltage class / pollution degree III/2 2.5 kV Short-time withstand current resistance 2.5 kV Short-time withstand current resistance 300 V Rated current (Use group B / CSA) Certificate No. (cURus) 300 V Rated voltage (Use group D / UL 1059) 300 V Rated voltage (Use group D / UL 1059) Rated current (Use group D / UL 1059) Rated current (Use group D / UL 1059)

Technical data



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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	Additional colours on request
	Rated current related to rated cross-section & min. No. of poles.
	 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.
	• 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.
	 For additional mechanical support for male connectors with screw flange (F), we recommend an additiona cable gland with fastening screws (sheet metal screw ISO 1481-ST 2.2x4.5 C or ISO 7049-ST 2.2x4.5 C – see Accessories). Cable gland only permitted before soldering.
Approvals	
Approvals	
ROHS	Conform
UL File Number Search	E60693
Downloads	
Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Engineering Data	<u>CAD data – STEP</u>
Engineering Data	EPLAN, WSCAD
Product Change Notification	<u>Change of packaging - DE</u> Change of packaging - EN
Catalogues	<u>Catalogues in PDF-format</u>
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 FL APPL INVERTER EN FL APPL INVERTER EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN PO OMNIMATE EN

Drawings

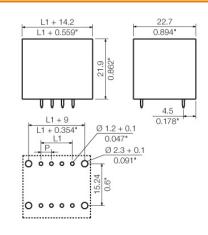


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Dimensional drawing



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Catalogue status 14.01.2022 / We reserve the right to make technical changes.

Accessories

Additional accessories





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No task is too small when creating the perfect solution. br />

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	PTSC KA 2.2X4.5 WN1412	Version	Product data
Order No.	<u>1610740000</u>	PCB plug-in connector, Accessories, Mounting screw, Number of	
GTIN (EAN)	4008190039523	poles: 1	
Qty.	100 pc(s).		

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	SC-SMT 3.81 KO GY BX	Version	Product data	Packaging
Order No.	<u>1968900000</u>	PCB plug-in connector, Accessories, Coding element, grey, Number of	of	Box
GTIN (EAN)	4032248772865	poles: 6		
Qty.	100 pc(s).			

Dimensions without tolerances are no check dimensions

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SCD 3.81/.../180G 3.2...

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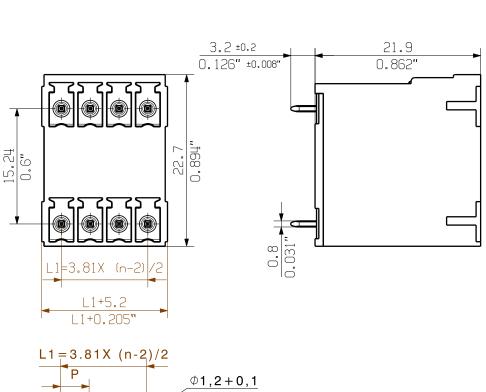
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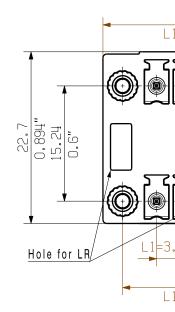
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0.6"



0.047"+0.004"



For the mounting of PCBs, it should be noted that the rated data stated here 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.

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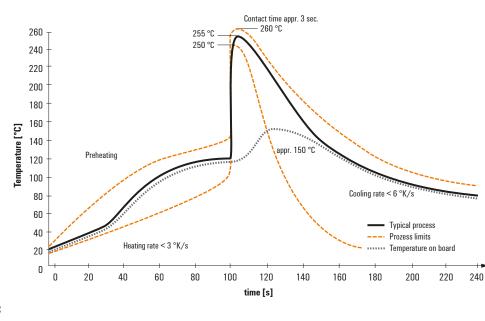
Wave Solder Profile

Recommended wave solderding profiles

Weidmüller 🟵

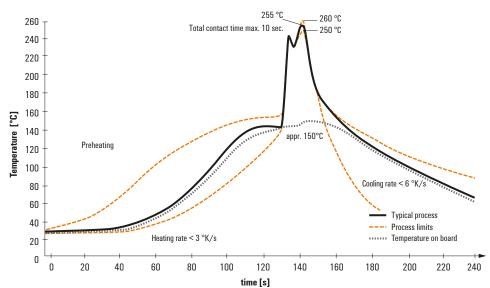
Weidmüller Interface GmbH & Co. KG

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Double Wave:

Single 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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