



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

#### **Product image**















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Extra flat high-temperature-resistant two-tier SCDN-THR pin header for reflow soldering.

- Two compact interfaces are used with the flat BCF 3.81 (PUSH IN) socket block.
- Available as 90° (recumbent).
- Connections on a single level, allowing 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, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 12, 90°, Solder pin length (I): 1.5 mm, tinned, black, Box		
Order No.	<u>1039310000</u>		
Туре	SCDN-THR 3.81/12/90G 1.5SN BK BX		
GTIN (EAN)	4032248772636		
Qty.	50 items		
Product data	IEC: 320 V / 17.5 A UL: 300 V / 11 A		
Packaging	Вох		



## **SCDN-THR 3.81/12/90G 1.5SN BK BX**



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# Technical data

Approvals			
ROHS	Conform		
Dimensions and weights			
Depth	13.3 mm	Depth (inches)	0.5236 inch
Height	16.7 mm	Height (inches)	0.6575 inch
Height of lowest version	15.2 mm	Width	24.25 mm
Width (inches)	0.9547 inch Net weight 4.54 g		
Environmental Product Comp	liance		
RoHS Compliance Status	Compliant without exemptio	n .	
REACH SVHC	No SVHC above 0.1 wt%	···	
	31 450.0 3.1 ***********************************		
System specifications			
Product family	OMNIMATE Signal - series BC/SC 3.81	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.150 "	Outgoing elbow	90°
Number of poles	12	Number of solder pins per pole	1
Solder pin length (I)	1.5 mm	Solder pin length tolerance	+0,02 / -0,02 mm
Solder pin dimensions	d = 1.0 mm, Octagonal Solder pin dimensions = d tolerance 0 / -0,03 mm		
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (I	D)+ 0,1 mm
Outside diameter of solder pad	2.1 mm	Template aperture diameter	1.9 mm
L1 in mm	19.05 mm	L1 in inches	0.750 "
Number of rows	2	Pin series quantity	2
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe plugged	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
Volume resistance	≤5 mΩ	Can be coded	Yes
Material data			
Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
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.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		
Rated data acc. to IEC			
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	13.2 A	Rated current, min. number of poles (Tu=40°C)	17 A
Rated current, max. number of poles	12.2 A	Rated voltage for surge voltage class /	320 V

Creation date 28.11.2025 08:16:14 MEZ

Rated voltage for surge voltage class /

160 V

(Tu=40°C)

pollution degree III/2

Catalogue status / Drawings 2

pollution degree II/2

Rated voltage for surge voltage class / pollution degree III/3

160 V





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# **Technical data**

Rated impulse voltage for surge voltage 2.5 kV class/ pollution degree II/2		Rated impulse voltage for surge voltage 2.5 kV class/ pollution degree III/2		
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance 3 x 1s with 76 A		
Rated data acc. to CSA				
Rated data acc. to CSA				
Rated data acc. to CSA  Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V	

#### Rated data acc. to UL 1059

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) 11 A	Rated current (Use group D / UL 1059) 11 A

#### **Packing**

Packaging	Box	VPE length	258.00 mm
VPE width	180.00 mm	VPE height	29.00 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	<ul> <li>Additional variants on request</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>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.</li> <li>P on drawing = pitch</li> <li>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</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

#### 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		

Catalogue status / Drawings



## **SCDN-THR 3.81/12/90G 1.5SN BK BX**

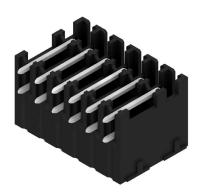
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# **Drawings**

#### **Product image**



#### **Dimensional drawing**

