



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Product image**















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Extra flat two-tier SCDN pin header for wave 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 solder connection, 3.81 mm, Number of poles: 20, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box	
Order No.	<u>1040510000</u>	
Туре	SCDN 3.81/20/90G 3.2SN OR BX	
GTIN (EAN)	4032248769155	
Qty.	50 items	
Product data	IEC: 320 V / 17.5 A UL: 300 V / 11 A	
Packaging	Вох	







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# **Technical data**

ROHS	Conform		
Dimensions and weights	3		
	<u> </u>		
		D (1.7)	0.5000: 1
Depth	13.3 mm	Depth (inches)	0.5236 inch
Depth Height	13.3 mm 18.4 mm	Height (inches)	0.5236 inch 0.7244 inch

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

### **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)	0.150 "	Outgoing elbow	90°
Number of poles	20	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 (D)+ 0,1 mm	
L1 in mm	34.29 mm	L1 in inches	1.350 "
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	PA GF	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 550	Moisture Level (MSL)	
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		

## 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 (Tu=40°C)	12.2 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 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 76 A

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Catalogue status / Drawings 2



# **SCDN 3.81/20/90G 3.2SN OR BX**



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# Technical data

rechnical data			
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)	11 A	Rated current (Use group D / CSA)	10 A
Rated data acc. to UL 1059			
B . 1 . 1 . (1)	0001/	D. J. W. (II. D. (III. 1050)	000.1/
Rated voltage (Use group B / UL 1059) Rated current (Use group B / UL 1059)		Rated voltage (Use group D / UL 1059) Rated current (Use group D / UL 1059)	
Rated current (Use group B / UL 1059)	IIA	Rated current (Use group D / UL 1059)	10 A
Packing			
Packaging	Box	VPE length	265.00 mm
VPE width	257.00 mm	VPE height	30.00 mm
IPC conformity	recognized standards and	are developed, manufactured and delivered a norms and comply with the assured propert in accordance with IPC-A-610 "Class 2". Ful st.	ies in the data sheet resp.
Notes	<ul> <li>Rated data refer only to components are to be d</li> <li>P on drawing = pitch</li> <li>In accordance with IEC capacity (COC). During disengaged when live on</li> </ul>	rated cross-section & min. No. of poles. the component itself. Clearance and creepagesigned in accordance with the relevant app 61984, OMNIMATE-connectors are connect designated use, connectors are not allowed t	lication standards. ors without breaking to be engaged or
Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637

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





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# **Drawings**

### **Product image**



## **Dimensional drawing**

