

## SCD 3.81/24/90F 3.2SN OR BX

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

### Product image



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: 90° (recumbent)
- 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: 24, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Order No.	<a href="#">1973360000</a>
Type	SCD 3.81/24/90F 3.2SN OR BX
GTIN (EAN)	4032248682911
Qty.	20 items
Product data	IEC: 320 V / 17.5 A UL: 300 V / 11 A
Packaging	Box

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E60693

## Dimensions and weights

Depth	21.9 mm	Depth (inches)	0.8622 inch
Height	25.9 mm	Height (inches)	1.0197 inch
Height of lowest version	22.7 mm	Width	56.11 mm
Width (inches)	2.2091 inch	Net weight	22.15 g

## Environmental Product Compliance

RoHS Compliance Status Compliant with exemption

RoHS Exemption (if applicable/known) 6c

REACH SVHC Lead 7439-92-1

SCIP 30ed36e8-ca63-4b0f-aea5-d68a63970d36

## 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 24

Number of solder pins per pole 1

Solder pin length (l) 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 41.91 mm

L1 in inches 1.650 "

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

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. 0.15 Nm

max. 0.2 Nm

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Recommended screw	Part number	<a href="#">PTSC KA 2.2X4.5 WN1412</a>
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### 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	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)	13.9 A	Rated current, min. number of poles (Tu=40°C)	17 A
Rated current, max. number of poles (Tu=40°C)	12.3 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

### Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated current (Use group B / CSA)	11 A
Rated current (Use group D / CSA)	10 A	Reference to approval values	Specifications are maximum values, details - see approval certificate.

### Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	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)	11 A	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	350.00 mm
VPE width	136.00 mm	VPE height	41.00 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 style="list-style-type: none"> <li>Additional variants on request</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> </ul>

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

### Classifications

ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

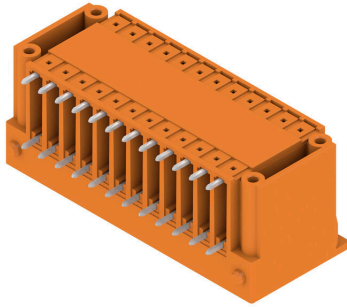
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Drawings

Product image



Dimensional drawing

