



Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

### **Product image**







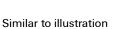








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Extra flat high-temperature-resistant two-tier SCDN-THR pin header for reflow soldering.

- 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**

PCB plug-in connector, male header, Flange, THT/THR solder connection, 3.81 mm, Number of poles: 22, 90°, Solder pin length (I): 3.2 mm, tinned, black, Box
<u>1039580000</u>
SCDN-THR 3.81/22/90F 3.2SN BK BX
4032248772827
50 items
IEC: 320 V / 17.5 A UL: 300 V / 11 A
Вох







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# **Technical data**

BOLLO					
ROHS	Conform				
Dimensions and weights					
Depth	13.3 mm	Donth (inches)	0	5236 inch	
Deptri Height	18.4 mm	Depth (inches) Height (inches)		7244 inch	
Height of lowest version	15.2 mm	Width		2.3 mm	
Width (inches)	2.0591 inch	Net weight		55 g	
Environmental Product Comp	liance				
2.110.0					
RoHS Compliance Status	Compliant with exemption				
RoHS Exemption (if applicable/known)	6c				
REACH SVHC SCIP	Lead 7439-92-1 98f26c42-1118-4423-8e8	00 a22hf260aaa0			
SCIP	98120042-1118-4423-868	38-c23bt269aea9			
System specifications	_				
Product family	OMNIMATE Signal - series	BC/SC 3.81			
Type of connection	Board connection	20,000.00			
Mounting onto the PCB	THT/THR solder connection	n			
Pitch in mm (P)	3.81 mm				
Pitch in inches (P)	0.150 "				
Outgoing elbow	90°				
Number of poles	22				
Number of solder pins per pole	1				
Solder pin length (I)	3.2 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 (E	0)+ 0,1 mm				
Outside diameter of solder pad	2.1 mm				
Template aperture diameter	1.9 mm				
_1 in mm	38.10 mm				
_1 in inches	1.500 "				
Number of rows	2				
Pin series quantity	2				
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ bad	1 00	d		
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplu	gged			
Volume resistance	≤5 mΩ				
Can be coded	Yes				
Tightening torque	Torque type		Mounting screw, PCB		
	Usage information		Tightening torque	min.	0.1 Nm
				max.	0.15 Nn
			Recommended screw	Part	PTSC K
				number	2.2X4.5 WN141

### **Material data**

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa

Creation date 26.11.2025 09:41:38 MEZ

Catalogue status / Drawings 2





## **SCDN-THR 3.81/22/90F 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG

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# **Technical data**

Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
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

#### 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

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

#### **Packing**

Packaging	Box	VPE length	280.00 mm
VPE width	255.00 mm	VPE height	28.00 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 product 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> </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

70%, 36 months

Long term storage of the product with average temperature of 50 °C and maximum humidity

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# **Technical data**

**SCDN-THR 3.81/22/90F 3.2SN BK BX** 

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		



## **SCDN-THR 3.81/22/90F 3.2SN BK BX**



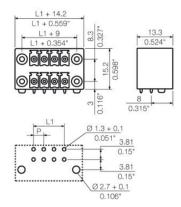
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# **Drawings**

### **Dimensional drawing**









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# Accessories

#### **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 BK BX	Version
Order No.	2460700000	PCB plug-in connector, Accessories, Coding element, black
GTIN (EAN)	4050118480023	
Qty.	100 ST	
Туре	SC-SMT 3.81 KO WT BX	Version
0 1 11		
Order No.	<u>2467670000</u>	PCB plug-in connector, Accessories, Coding element, white
GTIN (EAN)	<u>2467670000</u> 4050118494693	PCB plug-in connector, Accessories, Coding element, white