



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















1





The new benchmark for component density: the virtual 0.875mm pitch - for 1mm² I/O connections
The only 4-row double level male connectors for standard IP20 sensor interfaces with 3.5 pitch

The S2L in a double pack - a standard has surpassed itself:

- Each 3.5mm wide, 4 I/O contacts for 1mm² connection cross-section
- Force-fit enclosure geometry guarantees maximum stability
- Solder flange eliminates the need for a screw fastening Less is more basic advantages for your applications:
- 75% space savings on the circuit board
- Solder flange reduces process costs
- Less mechanical load on the soldering points
- More space for displays in the front panel, for example

A "small" contribution to greater competitiveness: additional features in the same installation space or a more compact device with the same range of functions.

General ordering data

Version	PCB plug-in connector, male header, Solder flange,
	THT/THR solder connection, 3.50 mm, Number
	of poles: 24, 90°, Solder pin length (I): 3.2 mm,
	tinned, black, Box
Order No.	<u>1357940000</u>
Туре	S2CD-THR 3.50/24/90LF 3.2SN BK BX
GTIN (EAN)	4050118160901
Qty.	20 items
Product data	IEC: 200 V / 7.9 A
	UL: 150 V / 9.5 A
Packaging	Box

Catalogue status / Drawings



S2CD-THR 3.50/24/90LF 3.2SN BK BX



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Aр	pr	ov	al	S
----	----	----	----	---

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	24.4 mm	Depth (inches)	0.9606 inch
Height	35 mm	Height (inches)	1.378 inch
Height of lowest version	31.8 mm	Width	28 mm
Width (inches)	1.1024 inch	Net weight	13.16 g

Environmental Product Compliance

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

System specifications

Product family	OMNIMATE Signal - series B2C/S2C 3.50 - 2-row	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	3.50 mm
Pitch in inches (P)	0.138 "	Outgoing elbow	90°
Number of poles	24	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Solder pin dimensions	d = 1.0 mm, Octagonal
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	17.50 mm	L1 in inches	0.685 "
Pin series quantity	4	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	Can be coded	Yes

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIb
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of solder connection	13 μm Ni / 25 μm Sn
			matt
Layer structure of plug contact	25 µm Sn / 13 µm Ni	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-40 °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)	7.9 A
Rated current, max. number of poles (Tu=20°C)	5 A	Rated current, min. number of poles (Tu=40°C)	6.8 A

Creation date 29.11.2025 04:15:11 MEZ

Catalogue status / Drawings 2



S2CD-THR 3.50/24/90LF 3.2SN BK BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Rated current, max. number of poles 5 A (Tu=40°C)	Rated voltage for surge voltage class / 200 V pollution degree II/2
Rated voltage for surge voltage class / 160 V pollution degree III/2	Rated voltage for surge voltage class / 100 V pollution degree III/3
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 1.5 kV class/contamination degree III/3	Short-time withstand current resistance 3 x 1s with 80 A

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B / CSA)	50 V	Rated voltage (Use group C / CSA)	50 V
Rated voltage (Use group D / CSA)	150 V	Rated current (Use group B / CSA)	5 A
Rated current (Use group C / CSA)	9.5 A	Rated current (Use group D / CSA)	9.5 A
Reference to approval values	Specifications are maximum values, details -		

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	150 V	Rated voltage (Use group C / UL 1059)	50 V
Rated voltage (Use group D / UL 1059)	50 V	Rated current (Use group B / UL 1059)	9.5 A
Rated current (Use group C / UL 1059)	9.5 A	Rated current (Use group D / UL 1059)	9.5 A
Reference to approval values	Specifications are maximum values, details -		

Packing

Packaging	Box	VPE length	145.00 mm
VPE width	130.00 mm	VPE height	48.00 mm

Important note

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	 Gold-plated contact surfaces on request Rated current related to rated cross-section & min. No. of poles. Spacing between rows: see hole layout 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. 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

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		

70%, 36 months

Creation date 29.11.2025 04:15:11 MEZ

Catalogue status / Drawings



S2CD-THR 3.50/24/90LF 3.2SN BK BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings

Product image



Dimensional drawing

