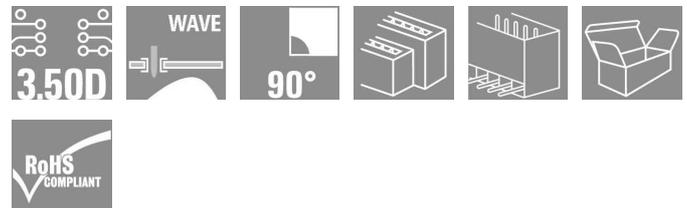


**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
S2L 3.50/10/90G 3.5SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



Angled, two-tier pin header available as closed-sided or with flange (open-sided pin headers on request). Pin headers with 3.5mm pins are designed for wave soldering and are packaged in a box. They can be screwed on to the PCB. The pin headers provide space for labelling and can be coded.

- 80 V (IEC) / 150 V (UL)
- 9 A (IEC) / 8 A (UL)

General ordering data

Type	S2L 3.50/10/90G 3.5SN OR BX
Order No.	1727850000
Version	PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 10, 90°, Solder pin length (l): 3.5 mm, tinned, Orange, Box
GTIN (EAN)	4032248039364
Qty.	50 pc(s).
Product data	IEC: 250 V / 10 A UL: 150 V / 10 A
Packaging	Box

Creation date October 22, 2013 4:49:13 PM CEST

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Technical data
Dimensions and weights

Net weight 3.04 g

System parameters

Product family		Mounting onto the PCB	
OMNIMATE Signal - series B2L/S2L 3.50 - 2-row		Solder connection	
Outgoing elbow	90°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	10
Solder pin length (l)	3.5 mm	Pin dimensions	d = 1.0 mm, Octagonal
Can be coded	Yes	Number of solder pins per pole	1
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)	+ 0.1 mm
L1 in mm	14 mm	L1 in inches	0.551 inch
Touch-safe protection acc. to DIN VDE 0470	IP 10	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch

Material data

Insulating material	PBT	Colour	Orange
Insulating material group	IIIa	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	Cu-Leg
Contact surface	tinned	Max. relative humidity during storage	93 %

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	10 A	Rated current, max. no. of poles (Tu=20°C)	10 A
Rated current, number of poles (Tu=40°C), min	9 A	Rated current, number of poles (Tu=40°C), max.	8.5 A
Rated voltage for surge voltage class pollution degree III/3	80 V	Rated impulse voltage for surge voltage classcontamination degree III/3	2.5 kV
Rated voltage for surge voltage class pollution degree III/2	125 V	Rated impulse voltage for surge voltage classpollution degree III/2	2.5 kV
Rated voltage for surge voltage class pollution degree II/2	250 V	Rated impulse voltage for surge voltage classpollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 77 A		

CSA rating data

Institute (CSA)		Rated voltage (Use group B)	150 V
Rated current (use group B)	5 A		

UL 1059 rating data

Institute (UR)		Rated voltage (use group B)	150 V
Rated current (use group B)	10 A	Rated voltage (use group C)	50 V
Rated current (use group C)	10 A		

Data sheet

OMNIMATE Signal - series B2L/S2L 3.50 - 2-row S2L 3.50/10/90G 3.5SN OR BX

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Technical data

Classifications

UNSPSC	30-21-18-10	eClass 5.1	27-26-07-01
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02

Notes

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

Approvals

Approvals



ROHS

Conform

Downloads

CAD Library (P-CAD Format - ASCII) [S2L-SMT.zip](#)

CAD Library (P-CAD Format - Standard) [S2L-SMT.zip](#)

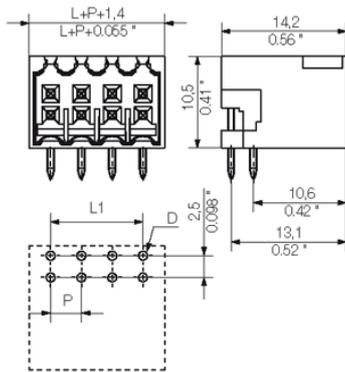
[3-D model](#)

Data sheet

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Drawings



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Mating connector (conditionally pluggable)
B2L 3.50F QV SN


Female connector with integral cross-connection and clear printing for uninterrupted relaying of potential at full current-carrying capacity with the maximum cable cross-section. The cross-connection is positioned vertically between the poles of rows directly on top of each other. Conductor connection with tension clamp system with straight outlet and 3.5 mm pitch. Flange and release lever available. Packed in cardboard box.

- 0.20 - 1.0mm² (IEC) / 28 - 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2L	1944690000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248619627	50 pc(s).	IEC: 200 V / 10.6 A / 0.2 - 1 mm ² UL: 150 V / 7 A / AWG 28 - AWG 18	Box

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
S2L 3.50/10/90G 3.5SN OR BX**

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Mating connector (conditionally pluggable)
B2L 3.50F

Component density redefined: the future standard for signal connection

Maximum connection density in the smallest of spaces - the 2-row B2L raises the bar higher for standard sensor cables up to 1mm² and bridges the gap between insufficient space and more functions.

The result is a connecting solution for standard industrial cables with 1.75 pitch - 30% smaller than an equivalent solution with 2.5 pitch and with 140% the robustness of 3.5 pitch

Dimensions: double the connection density with 3.5mm pitch size

Connection system: tried and tested maintenance-free Weidmüller tension clamp connection

Connection data / Performance:

- 0.20 - 1.0mm² (IEC) / 28 - 18 AWG (UL)
- 80 V / 10 A (IEC) / 150 V / 10 A (UL)
- No. of poles: 4 to 36

The basic application advantages:

Efficient - maximum component density on the PCB
 Suitable for industrial use - minimum dimensions, maximum robustness

Process-optimised - automatic configuration and reflow solders, rapid connection

User-friendly - patented release lever for the easy release of larger numbers of poles

Application-oriented: easy labelling and reliable coding despite compact dimensions

Miniaturisation is more than just a larger number of functions within a small space:

Every reduction in size decreases space requirements and the overall system costs less for the end customer.

Weidmüller fulfils a growing demand in the engineering and industrial automation sectors.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2L 3.50/10/180F SN BK BX	1748190000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248038022	50 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
B2L 3.50/10/180F SN OR BX	1748030000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248037940	50 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
S2L 3.50/10/90G 3.5SN OR BX**

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Mating connector (conditionally pluggable)
B2L 3.50LH QV SN


Female connector with integral cross-connection and clear printing for uninterrupted relaying of potential at full current-carrying capacity with the maximum cable cross-section. The cross-connection is positioned vertically between the poles of rows directly on top of each other. Conductor connection with tension clamp system with straight outlet and 3.5 mm pitch. Flange and release lever available. Packed in cardboard box.

- 0.20 - 1.0mm² (IEC) / 28 - 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2L	1944770000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248619702	50 pc(s).	IEC: 200 V / 10.6 A / 0.2 - 1 mm ² UL: 150 V / 7 A / AWG 28 - AWG 18	Box

B2L 3.50LH


Female connectors with tension clamp connection system enable quick and simple wiring. These female header can be mounted side by side and therefore have a high connection density. The release lever simplifies the separation of the connection in confined spaces. The socket blocks provide space for labelling and can be coded.

- 0.20 - 1.0mm² (IEC) / 28 - 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2L	1748350000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248038138	50 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
B2L	1748510000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248038220	50 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

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Mating connector (fully pluggable)
B2L 3.50 QV SN


Female connector with integral cross-connection and clear printing for uninterrupted relaying of potential at full current-carrying capacity with the maximum cable cross-section. The cross-connection is positioned vertically between the poles of rows directly on top of each other. Conductor connection with tension clamp system with straight outlet and 3.5 mm pitch. Flange and release lever available. Packed in cardboard box.

- 0.20 - 1.0mm² (IEC) / 28 - 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2L	1944610000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248619542	50 pc(s).	IEC: 200 V / 10.6 A / 0.2 - 1 mm ² UL: 150 V / 7 A / AWG 28 - AWG 18	Box

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Mating connector (fully pluggable)

B2L 3.50



Component density redefined: the future standard for signal connection

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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2L 3.50/10/180 SN BK BX PRT	1024280000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248743728	50 pc(s).	IEC: 200 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
B2L 3.50/10/180 SN BK BX	1727660000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248037858	50 pc(s).	IEC: 200 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

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Mating connector (fully pluggable)

B2L 3.50/10/180 SN OR BX	1727580000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248037711 50 pc(s). IEC: 200 V / 10.3 A / 0.2 - 1 mm ² Box UL: 300 V / 10 A / AWG 28 - AWG 16
B2L 3.50/10/180 SN BK BX PRT	1966940000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248660728 50 pc(s). IEC: 200 V / 10.3 A / 0.2 - 1 mm ² Box UL: 300 V / 10 A / AWG 28 - AWG 16

