

### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold

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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)

| Version  PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 6, 90°, Solder pin length (I): 3.5 mm, tinned, Orange, Box GTIN (EAN)  4032248045242  Qty.  50 pc(s).  Product data  IEC: 250 V / 10 A  UL: 150 V / 10 A                                                                                                         |              |                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order No.         1727830000           Version         PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 6, 90°, Solder pin length (I): 3.5 mm, tinned, Orange, Box           GTIN (EAN)         4032248045242           Qty.         50 pc(s).           Product data         IEC: 250 V / 10 A           UL: 150 V / 10 A |              |                                                                                                                                                             |
| Version         PCB plug-in connector, male header, closed side, Solder connection, 3.50 mm, No. of poles: 6, 90°, Solder pin length (I): 3.5 mm, tinned, Orange, Box           GTIN (EAN)         4032248045242           Qty.         50 pc(s).           Product data         IEC: 250 V / 10 A           UL: 150 V / 10 A                                        | Туре         | S2L 3.50/06/90G 3.5SN OR BX                                                                                                                                 |
| Solder connection, 3.50 mm, No. of poles: 6, 90°, Solder pin length (I): 3.5 mm, tinned, Orange, Box GTIN (EAN) 4032248045242  Oty. 50 pc(s).  Product data IEC: 250 V / 10 A  UL: 150 V / 10 A                                                                                                                                                                      | Order No.    | <u>1727830000</u>                                                                                                                                           |
| Oty. 50 pc(s).  Product data IEC: 250 V / 10 A  UL: 150 V / 10 A                                                                                                                                                                                                                                                                                                     | Version      | PCB plug-in connector, male header, closed side,<br>Solder connection, 3.50 mm, No. of poles: 6, 90°,<br>Solder pin length (I): 3.5 mm, tinned, Orange, Box |
| Product data IEC: 250 V / 10 A UL: 150 V / 10 A                                                                                                                                                                                                                                                                                                                      | GTIN (EAN)   | 4032248045242                                                                                                                                               |
| UL: 150 V / 10 A                                                                                                                                                                                                                                                                                                                                                     | Qty.         | 50 pc(s).                                                                                                                                                   |
| Packaging Box                                                                                                                                                                                                                                                                                                                                                        | Product data | •                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                      | Packaging    | Вох                                                                                                                                                         |



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## **Technical data**

| <b>Dimensions</b> | and | weighte |
|-------------------|-----|---------|
| Dimensions        | anu | weights |

### System parameters

| Product family                        | OMNIMATE Signal - series | Mounting onto the PCB                    |                        |
|---------------------------------------|--------------------------|------------------------------------------|------------------------|
|                                       | 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                             | 6                      |
| Solder pin length (I)                 | 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 (I | D)+ 0,1 mm             |
| L1 in mm                              | 7 mm                     | L1 in inches                             | 0.276 inch             |
| Touch-safe protection acc. to DIN VDE |                          | Touch-safe protection acc. to DIN VDE    | Safe from back-of-hand |
| 0470                                  | IP 10                    | 57 106                                   | touch                  |

### **Material data**

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

### **DIN IEC rating data**

| Rated current, min. no. of poles              | 40.4                | Rated current, max. no. of poles               |        |
|-----------------------------------------------|---------------------|------------------------------------------------|--------|
| (TU=20°C)                                     | 10 A                | (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  |
| ,                                             | 9 A                 |                                                |        |
| Rated voltage for surge voltage class         |                     | Rated impulse voltage for surge voltage        |        |
| pollution degree III/3                        | 80 V                | classcontamination degree III/3                | 2.5 kV |
| Rated voltage for surge voltage class         |                     | Rated impulse voltage for surge voltage        |        |
| pollution degree III/2                        | 125 V               | classpollution degree III/2                    | 2.5 kV |
| Rated voltage for surge voltage class         |                     | Rated impulse voltage for surge voltage        |        |
| pollution degree II/2                         | 250 V               | classpollution degree II/2                     | 2.5 kV |
| Short-time withstand current resistan         | ce 3 x 1s with 77 A |                                                |        |

### **CSA** rating data

| Institute (CSA)             | <b>€</b> P: | 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 |                             |       |  |



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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

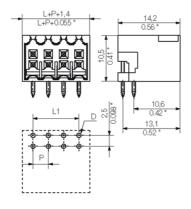


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## **Drawings**





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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 crosssection. 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 1.0mm<sup>2</sup> (IEC) / 28 18 AWG (UL)
- 80 V (IEC) / 150 V (UL) 10 A (IEC) / 10 A (UL)

| Туре     | Order No.         | Version                | GTIN (EAN)    | Qty.          | Product data                     | Packagir |
|----------|-------------------|------------------------|---------------|---------------|----------------------------------|----------|
| B2L      | <u>1944670000</u> | PCB plug-in connector  | , 40322486196 | 603 50 pc(s). | IEC: 200 V / 10.6 A / 0.2 - 1 mm | 2 Box    |
| 3.50/06/ | 180FQV3           | female plug, 3.50 mm   | ,             |               | UL: 150 V / 7 A / AWG 28 - AWG   | i 18     |
| SN BK BX |                   | No. of poles: 6, 180°, |               |               |                                  |          |
|          |                   | Tension clamp connec   | ction,        |               |                                  |          |
|          |                   | Clamping range, rated  |               |               |                                  |          |
|          |                   | connection, max.: 1 m  | m²,           |               |                                  |          |
|          |                   | Box                    |               |               |                                  |          |



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### **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 1mm<sup>2</sup> 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 1.0mm<sup>2</sup> (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.

| Туре         | Order No.         | Version                             | GTIN (EAN)             | Qty.         | Product data                                  | Packa |  |  |
|--------------|-------------------|-------------------------------------|------------------------|--------------|-----------------------------------------------|-------|--|--|
| B2L          | <u>1748010000</u> | PCB plug-in connector,              | 403224803793           | 3 50 pc(s).  | IEC: 250 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> | Box   |  |  |
| 3.50/06/180F |                   | female plug, 3.50 mm,               |                        |              | UL: 300 V / 10 A / AWG 28 - AWG               | 16    |  |  |
| SN OR BX     | (                 | No. of poles: 6, 180°,              | No. of poles: 6, 180°, |              |                                               |       |  |  |
|              |                   | Tension clamp connection,           |                        |              |                                               |       |  |  |
|              |                   | Clamping range, rated               |                        |              |                                               |       |  |  |
|              |                   | connection, max.: 1 mm²,            |                        |              |                                               |       |  |  |
|              |                   | Box                                 |                        |              |                                               |       |  |  |
| 32L          | <u>1748170000</u> | PCB plug-in connector,              | 403224803800           | 08 50 pc(s). | IEC: 250 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> | Box   |  |  |
| 3.50/06/     | ′180F             | female plug, 3.50 mm,               |                        |              | UL: 300 V / 10 A / AWG 28 - AWG               | 16    |  |  |
| SN BK BX     |                   | No. of poles: 6, 180°,              |                        |              |                                               |       |  |  |
|              |                   | Tension clamp connection            | on,                    |              |                                               |       |  |  |
|              |                   | Clamping range, rated               |                        |              |                                               |       |  |  |
|              |                   | connection, max.: 1 mm <sup>2</sup> | <sup>2</sup> ,         |              |                                               |       |  |  |
|              |                   | Box                                 |                        |              |                                               |       |  |  |



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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 1.0mm<sup>2</sup> (IEC) / 28 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

### **General ordering data**

| Туре     | Order No.         | Version                  | GTIN (EAN)  | Qty.         | Product data                                  | Packagi |
|----------|-------------------|--------------------------|-------------|--------------|-----------------------------------------------|---------|
| B2L      | <u>1944750000</u> | PCB plug-in connector,   | 40322486196 | 89 50 pc(s). | IEC: 200 V / 10.6 A / 0.2 - 1 mm <sup>2</sup> | Box     |
| 3.50/06/ | 180LHQV3          | female plug, 3.50 mm,    |             |              | UL: 150 V / 7 A / AWG 28 - AWG 1              | 8       |
| SN BK BX |                   | No. of poles: 6, 180°,   |             |              |                                               |         |
|          |                   | Tension clamp connection | on,         |              |                                               |         |
|          |                   | Clamping range, rated    |             |              |                                               |         |
|          |                   | connection, max.: 1 mm   | 2,          |              |                                               |         |
|          |                   | 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 1.0mm<sup>2</sup> (IEC) / 28 18 AWG (UL)
- 80 V (IEC) / 150 V (UL)
- 10 A (IEC) / 10 A (UL)

| Гуре          | Order No.         | Version                             | GTIN (EAN)  | Qty.         | Product data                                  | Packa |
|---------------|-------------------|-------------------------------------|-------------|--------------|-----------------------------------------------|-------|
| 32L           | <u>1748330000</u> | PCB plug-in connector,              | 40322480381 | 1450 pc(s).  | IEC: 250 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> | Box   |
| 3.50/06/180LH |                   | female plug, 3.50 mm,               |             |              | UL: 300 V / 10 A / AWG 28 - AWG               | 16    |
| SN OR BX      |                   | No. of poles: 6, 180°,              |             |              |                                               |       |
|               |                   | Tension clamp connection            | n,          |              |                                               |       |
|               |                   | Clamping range, rated               |             |              |                                               |       |
|               |                   | connection, max.: 1 mm <sup>2</sup> | 2,          |              |                                               |       |
|               |                   | Box                                 |             |              |                                               |       |
| 32L           | <u>1748490000</u> | PCB plug-in connector,              | 40322480382 | 06 50 pc(s). | IEC: 250 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> | Box   |
| 3.50/06/180LH |                   | female plug, 3.50 mm,               |             |              | UL: 300 V / 10 A / AWG 28 - AWG               | 16    |
| SN BK BX      |                   | No. of poles: 6, 180°,              |             |              |                                               |       |
|               |                   | Tension clamp connection            | n,          |              |                                               |       |
|               |                   | Clamping range, rated               |             |              |                                               |       |
|               |                   | connection, max.: 1 mm <sup>2</sup> | 2,          |              |                                               |       |
|               |                   |                                     |             |              |                                               |       |



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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 crosssection. 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 1.0mm<sup>2</sup> (IEC) / 28 18 AWG (UL)
- 80 V (IEC) / 150 V (UL) 10 A (IEC) / 10 A (UL)

| Туре           | Order No.         | Version                | GTIN (EAN)  | Qty.         | Product data                    | Packaging |  |  |  |
|----------------|-------------------|------------------------|-------------|--------------|---------------------------------|-----------|--|--|--|
| B2L            | <u>1944590000</u> | PCB plug-in connector, | 40322486195 | 28 50 pc(s). | IEC: 200 V / 10.6 A / 0.2 - 1 m | nm² Box   |  |  |  |
| 3.50/06/180QV3 |                   | female plug, 3.50 mm,  |             |              | UL: 150 V / 7 A / AWG 28 - A    | WG 18     |  |  |  |
| SN BK BX       |                   | No. of poles: 6, 180°, |             |              |                                 |           |  |  |  |
|                |                   | Tension clamp connec   | tion,       |              |                                 |           |  |  |  |
|                |                   | Clamping range, rated  |             |              |                                 |           |  |  |  |
|                |                   | connection, max.: 1 mi | m²,         |              |                                 |           |  |  |  |
|                |                   | Вох                    |             |              |                                 |           |  |  |  |
|                |                   |                        |             |              |                                 | 1         |  |  |  |



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### Mating connector (fully pluggable)

### **B2L 3.50**



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- No. of poles: 4 to 36

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|--------------|-------------------|---------------------------------------|-----------------------|---------------|-----------------------------------------------|-------|
| B2L          | <u>1024260000</u> | PCB plug-in connector,                | 40322487437           | '04 50 pc(s). | IEC: 200 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> | Box   |
| 3.50/06/180  |                   | female plug, 3.50 mm,                 |                       |               | UL: 300 V / 10 A / AWG 28 - AWG               | 16    |
| SN BK BX PRT |                   | No. of poles: 6, 180°,                |                       |               |                                               |       |
|              |                   | Tension clamp connection              | n,                    |               |                                               |       |
|              |                   | Clamping range, rated                 | Clamping range, rated |               |                                               |       |
|              |                   | connection, max.: 1 mm²,              |                       |               |                                               |       |
|              |                   | Box                                   |                       |               |                                               |       |
| B2L          | <u>1727560000</u> | PCB plug-in connector,                | 40322480377           | '04 50 pc(s). | IEC: 200 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> | Box   |
| 3.50/06/180  |                   | female plug, 3.50 mm,                 |                       |               | UL: 300 V / 10 A / AWG 28 - AWG               | 16    |
| SN OR BX     |                   | No. of poles: 6, 180°,                |                       |               |                                               |       |
|              |                   | Tension clamp connection              | n,                    |               |                                               |       |
|              |                   | Clamping range, rated                 |                       |               |                                               |       |
|              |                   | connection, max.: 1 mm <sup>2</sup> , |                       |               |                                               |       |
|              |                   | Box                                   |                       |               |                                               |       |



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## Mating connector (fully pluggable)

| B2L <u>1847520000</u> | PCB plug-in connector, 4032248366569 50 pc(s).                                                  | IEC: 200 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> Box |  |  |  |  |
|-----------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------|--|--|--|--|
| 3.50/06/180           | female plug, 3.50 mm,                                                                           | UL: 300 V / 10 A / AWG 28 - AWG 16                |  |  |  |  |
| SN OR BX PRT          | No. of poles: 6, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm², |                                                   |  |  |  |  |
|                       |                                                                                                 |                                                   |  |  |  |  |
|                       |                                                                                                 |                                                   |  |  |  |  |
|                       |                                                                                                 |                                                   |  |  |  |  |
|                       | Box                                                                                             |                                                   |  |  |  |  |
| B2L <u>1814960000</u> | PCB plug-in connector, 4032248303359 50 pc(s).                                                  | IEC: 200 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> Box |  |  |  |  |
| 3.50/06/180           | female plug, 3.50 mm,                                                                           | UL: 300 V / 10 A / AWG 28 - AWG 16                |  |  |  |  |
| SN BK BX PRT          | No. of poles: 6, 180°,                                                                          |                                                   |  |  |  |  |
|                       | Tension clamp connection,                                                                       |                                                   |  |  |  |  |
|                       | Clamping range, rated                                                                           |                                                   |  |  |  |  |
|                       | connection, max.: 1 mm²,                                                                        |                                                   |  |  |  |  |
|                       | Вох                                                                                             |                                                   |  |  |  |  |
| B2L <u>1727640000</u> | PCB plug-in connector, 403224803783450 pc(s).                                                   | IEC: 200 V / 10.3 A / 0.2 - 1 mm <sup>2</sup> Box |  |  |  |  |
| 3.50/06/180           | female plug, 3.50 mm,                                                                           | UL: 300 V / 10 A / AWG 28 - AWG 16                |  |  |  |  |
| SN BK BX              | No. of poles: 6, 180°,                                                                          |                                                   |  |  |  |  |
|                       | Tension clamp connection,                                                                       |                                                   |  |  |  |  |
|                       | Clamping range, rated                                                                           |                                                   |  |  |  |  |
|                       | connection, max.: 1 mm²,                                                                        |                                                   |  |  |  |  |
|                       | Вох                                                                                             |                                                   |  |  |  |  |

