

**OMNIMATE Signal - series RSV  
RSV1,6 B12 GR****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

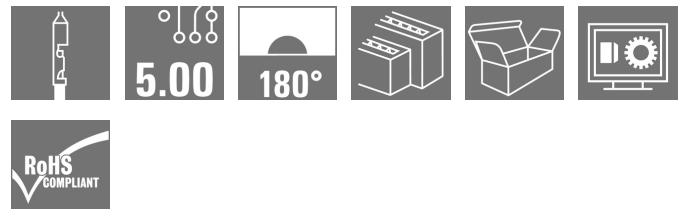
D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



Similar to illustration

Rectangular plug-in connector for use with crimp contacts. Can be used as universal coupling, but also with the PCB variations. The crimp contacts guarantee a high connection density. CS 1.6 or CB 1.6 contacts can be used here. The plug-in connectors can be coded and locked to the mating connector. Supplied in cardboard box.

**General ordering data**

|              |                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------|
| Type         | RSV1,6 B12 GR                                                                                                                  |
| Order No.    | <a href="#">1416000000</a>                                                                                                     |
| Version      | PCB plug-in connector, female plug, 5.00 mm, Number of poles: 12, 180°, Crimp connection, Clamping range, max. : 3.31 mm², Box |
| GTIN (EAN)   | 4008190021177                                                                                                                  |
| Qty.         | 25 pc(s).                                                                                                                      |
| Product data | IEC: 630 V / 17 A<br>UL: 600 V / 10 A / AWG 26 - AWG 12                                                                        |
| Packaging    | Box                                                                                                                            |

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### Technical data

#### Dimensions and weights

|            |         |
|------------|---------|
| Net weight | 10.84 g |
|------------|---------|

#### System Parameters

|                                            |                              |                                              |                        |
|--------------------------------------------|------------------------------|----------------------------------------------|------------------------|
| Product family                             | OMNIMATE Signal - series RSV | Type of connection                           | Field connection       |
| Wire connection method                     | Crimp connection             | Pitch in mm (P)                              | 5 mm                   |
| Pitch in inches (P)                        | 0.197 inch                   | Conductor outlet direction                   | 180°                   |
| Number of poles                            | 12                           | L1 in mm                                     | 15 mm                  |
| L1 in inches                               | 0.591 inch                   | Number of rows                               | 1                      |
| Pin series quantity                        | 3                            | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20                        | Can be coded                                 | Yes                    |
| Stripping length                           | 4 mm                         | Plugging force/pole, max.                    | 2 N                    |
| Pulling force/pole, max.                   | 2 N                          |                                              |                        |

#### Material data

|                                       |              |                                       |             |
|---------------------------------------|--------------|---------------------------------------|-------------|
| Insulating material                   | Wemid (PA)   | Colour                                | Pebble grey |
| Colour chart (similar)                | RAL 7032     | Insulating material group             | I           |
| Comparative Tracking Index (CTI)      | ≥ 600        | UL 94 flammability rating             | V-0         |
| Contact material                      | Copper alloy | Storage temperature, min.             | -25 °C      |
| Storage temperature, max.             | 50 °C        | Max. relative humidity during storage | 70 %        |
| Operating temperature, min.           | -50 °C       | Operating temperature, max.           | 100 °C      |
| Temperature range, installation, min. | -25 °C       | Temperature range, installation, max. | 100 °C      |

#### Conductors suitable for connection

|                            |                      |                            |                      |
|----------------------------|----------------------|----------------------------|----------------------|
| Clamping range, min.       | 0.13 mm <sup>2</sup> | Clamping range, max.       | 3.31 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K | 0.2 mm <sup>2</sup>  | Flexible, max. H05(07) V-K | 2.5 mm <sup>2</sup>  |
| Max. clamping range        | 3.31 mm <sup>2</sup> |                            |                      |

#### Rated data acc. to IEC

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 17 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 13 A                   | Rated current, min. number of poles (Tu=40°C)                         | 15 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 11.5 A                 | Rated voltage for surge voltage class / pollution degree II/2         | 630 V             |
| Rated voltage for surge voltage class / pollution degree III/2            | 400 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 250 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV              |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   | Short-time withstand current resistance                               | 3 x 1s with 120 A |

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#### Rated data acc. to CSA

|                                   |                                                                                   |                                   |          |
|-----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------|----------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 53975-13 |
| Rated voltage (Use group C / CSA) | 600 V                                                                             | Rated current (Use group C / CSA) | 13 A     |
| Wire cross-section, AWG, min.     | AWG 26                                                                            | Wire cross-section, AWG, max.     | AWG 12   |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate.            |                                   |          |

#### Rated data acc. to UL 1059

|                              |                                                                                   |                      |        |
|------------------------------|-----------------------------------------------------------------------------------|----------------------|--------|
| Institute (UR)               |  | Certificate No. (UR) | E92202 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate.            |                      |        |

#### Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 48 mm  |
| VPE width | 100 mm | VPE height | 134 mm |

#### Classifications

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0   | EC002638    |
| eClass 9.0  | 27-44-03-09 | eClass 9.1 | 27-44-03-09 |
| eClass 10.0 | 27-44-03-09 | UNSPSC     | 30-21-18-10 |

#### Notes

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Notes          | <ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Spacing between rows: see hole layout</li> <li>• Rated cross-section depends on crimp contact used.</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>• Max. outer diameter of the cable (with insulation): 3.5 mm</li> </ul> |  |  |
| 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.                                                                                                                                                                                                                       |  |  |

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## Technical data

### Approvals

Approvals



ROHS

Conform

### Downloads

|                                             |                                                                                                                                                          |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>                                                                                                          |
| Brochure/Catalogue                          | <a href="#">MB DEVICE MANUF. EN</a><br><a href="#">CAT 2 PORTFOLIOGUIDE EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a> |
| Engineering Data                            | <a href="#">EPLAN_WSCAD</a>                                                                                                                              |
| Engineering Data                            | <a href="#">RSV1.6.zip</a>                                                                                                                               |

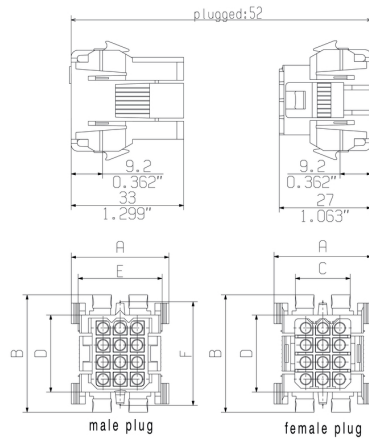
# OMNIMATE Signal - series RSV

## RSV1,6 B12 GR

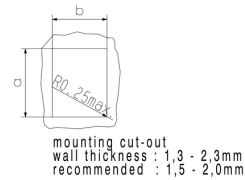
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## Drawings

### Dimensional drawing

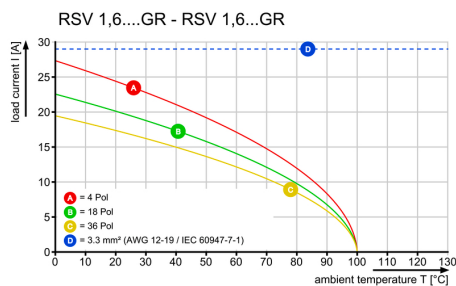


### Dimensional drawing



| poles | dimension male plug / female plug |      |      |      |      | mounting cut-out |        |
|-------|-----------------------------------|------|------|------|------|------------------|--------|
|       | A                                 | B    | C    | D    | E    | a ±0.2           | b ±0.2 |
| 4     | 23.0                              | 25.0 | 10.0 | 12.8 | 17.8 | 20.3             | 18.1   |
| 6     | 23.0                              | 30.0 | 10.0 | 17.6 | 17.8 | 25.1             | 18.1   |
| 9     | 29.0                              | 30.0 | 16.0 | 17.6 | 23.8 | 25.1             | 24.0   |
| 12    | 29.0                              | 35.0 | 16.0 | 22.6 | 23.8 | 30.0             | 24.0   |
| 18    | 29.0                              | 46.0 | 16.0 | 33.0 | 23.8 | 40.5             | 24.0   |
| 24    | 33.0                              | 46.0 | 20.0 | 33.0 | 27.8 | 40.5             | 28.3   |
| 36    | 33.0                              | 61.0 | 20.0 | 48.0 | 27.8 | 55.5             | 28.3   |

### Graph



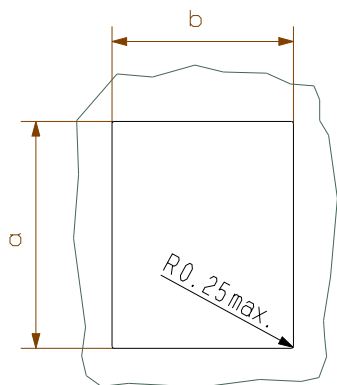
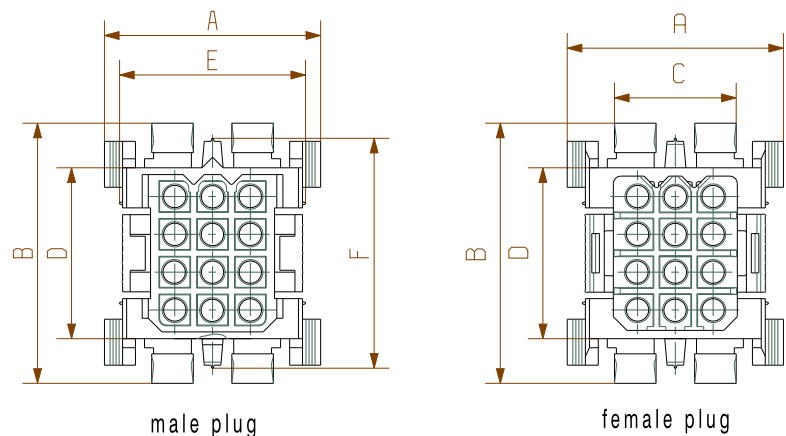
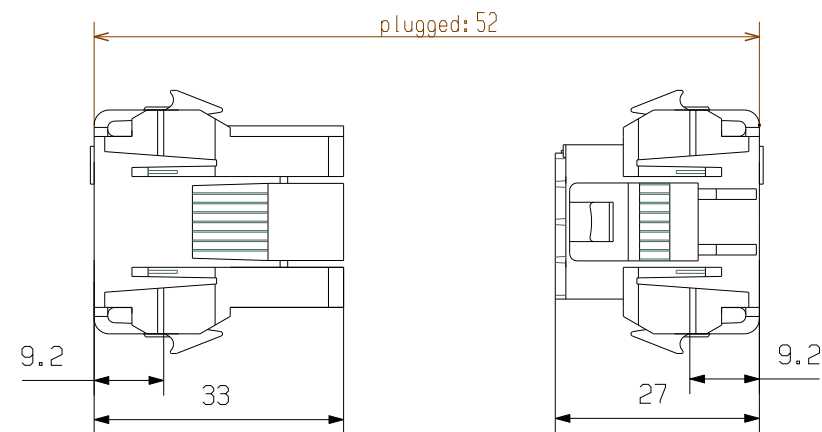
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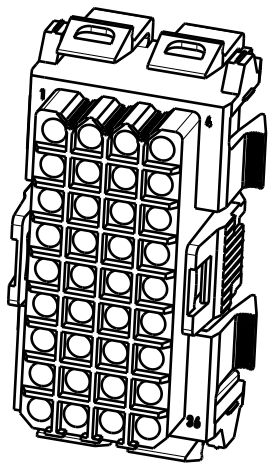
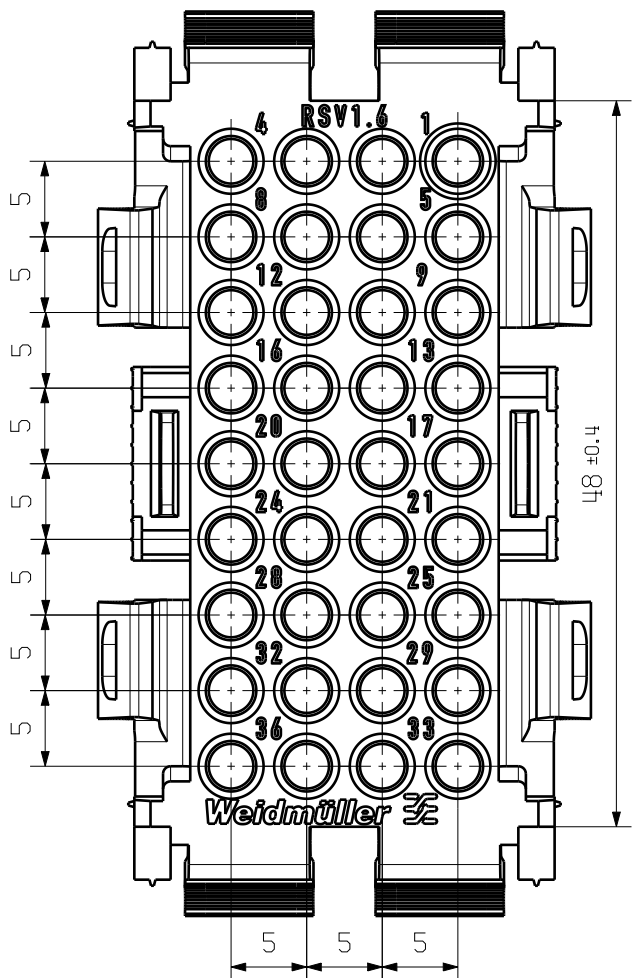
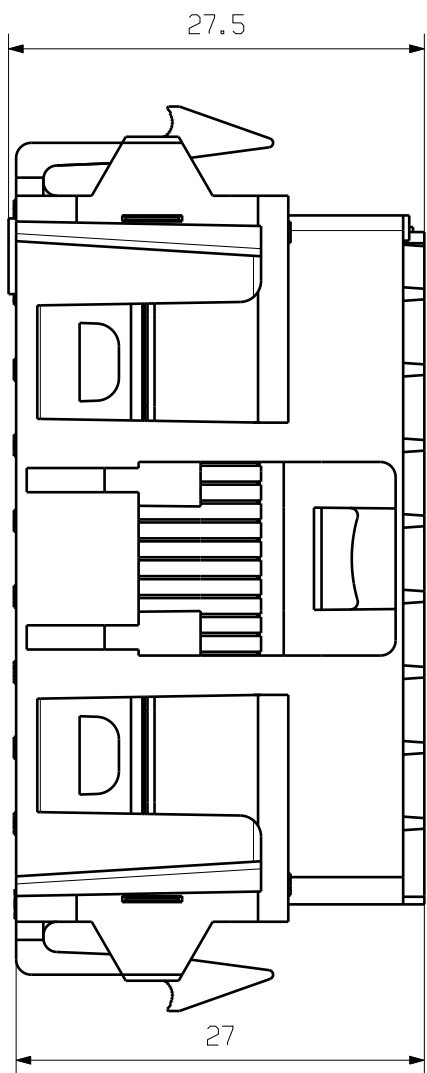
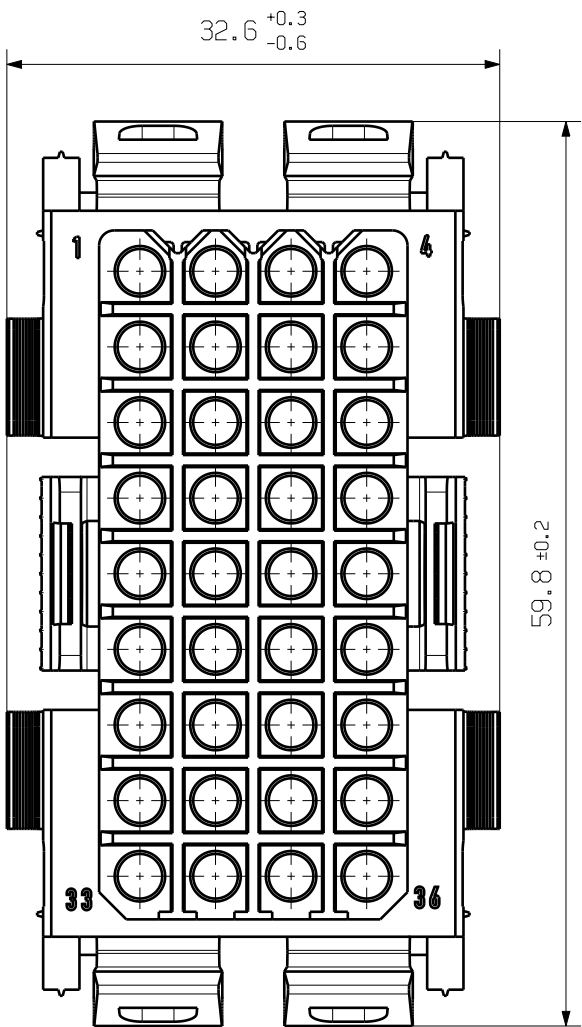
Dimensions without tolerances are no check dimensions

The English version is binding

Assembly instruction:



mounting cut-out  
wall thickness : 1,3 - 2,3mm  
recommended : 1,5 - 2,0mm



For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmueller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| poles | dimension male plug / female plug |      |      |      |      | mounting cut-out |             |
|-------|-----------------------------------|------|------|------|------|------------------|-------------|
|       | A                                 | B    | C    | D    | E    | a $\pm 0.3$      | b $\pm 0.3$ |
| 4     | 23,0                              | 25,0 | 10,8 | 12,8 | 17,8 | 20,3             | 18,1        |
| 6     | 23,0                              | 30,0 | 10,8 | 17,6 | 17,8 | 25,1             | 18,1        |
| 9     | 29,0                              | 30,0 | 16,6 | 17,6 | 23,8 | 25,1             | 24,0        |
| 12    | 29,0                              | 35,0 | 16,6 | 22,6 | 23,8 | 30,0             | 24,0        |
| 18    | 29,0                              | 46,0 | 16,6 | 33,0 | 23,8 | 40,5             | 24,0        |
| 24    | 33,0                              | 46,0 | 20,6 | 33,0 | 27,8 | 40,5             | 28,3        |
| 36    | 33,0                              | 61,0 | 20,6 | 48,0 | 27,8 | 55,5             | 28,3        |

|                                                                                       |  |                                                                                       |          |                                                                                                         |                             |                                                                                               |  |
|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------|--|
| General tolerance:<br>DIN ISO 2768-mK                                                 |  | 94488/5                                                                               |          | Cat.no.: .                                                                                              |                             |                                                                                               |  |
|                                                                                       |  | 29.06.18 HERTEL_S 01                                                                  |          |                                                                                                         |                             |                                                                                               |  |
|  |  | Modification                                                                          |          | <b>Weidmüller</b>  |                             | 1 14927  |  |
|                                                                                       |  |                                                                                       |          |                                                                                                         |                             | Drawing no. Issue no.                                                                         |  |
|                                                                                       |  |                                                                                       |          |                                                                                                         |                             | Sheet 00 of 00 sheets                                                                         |  |
|                                                                                       |  |  |          | Date                                                                                                    | Name                        | <b>RSV 1.6 B36</b><br>BUCHSENGEHAEUSE<br>SOCKET HOUSING                                       |  |
| Drawn                                                                                 |  | 25.05.2011                                                                            | LANG_T   |                                                                                                         |                             |                                                                                               |  |
| Responsible                                                                           |  |                                                                                       | HERTEL_S |                                                                                                         |                             |                                                                                               |  |
| Checked                                                                               |  | 12.07.2018                                                                            | HERTEL_S |                                                                                                         |                             |                                                                                               |  |
| Scale: 10:1                                                                           |  | Approved                                                                              |          | LANG_T                                                                                                  | Product file: RSV 1.6 CRIMP |                                                                                               |  |
| Supersedes: .                                                                         |  |                                                                                       |          |                                                                                                         | 7265                        |                                                                                               |  |