# OMNIMATE Signal - series RSV
# RSV1,6 S9 GR

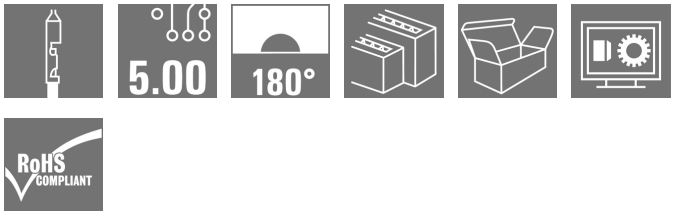
**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
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www.weidmueller.com

## Product image



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 S9 GR |
| Order No. | 1415100000 |
| Version | PCB plug-in connector, male plug, 5.00 mm, No. of poles: 9, 180°, Crimp connection, Clamping range, max. : 3.31 mm², Box |
| GTIN (EAN) | 4008190025526 |
| 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 | 10.8 g |

### Environmental Product Compliance

| | |
|---|---|
| REACH SVHC | Lead 7439-92-1 |

### 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° |
| No. of poles | 9 | L1 in mm | 10 mm |
| L1 in inches | 0.394 inch | Number of rows | 1 |
| Pin series quantity | 3 | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch, plugged |
| Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged | Stripping length | 4 mm |
| Plugging force/pole, max. | 9 N | Pulling force/pole, max. | 18 N |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | Wemid (PA) | Colour | Pebble grey |
| Colour chart (similar) | RAL 7032 | Insulating material group | I |
| CTI | ≥ 600 | UL 94 flammability rating | V-0 |
| Contact material | Copper alloy | Storage temperature, min. | -25 °C |
| Storage temperature, max. | 55 °C | Max. relative humidity during storage | 80 % |
| Operating temperature, max. | 100 °C | Temperature range, installation, max. | 100 °C |

### Conductors suitable for connection

| | | | |
|---|---|---|---|
| Clamping range, min. | 0.13 mm² | Clamping range, max. | 3.31 mm² |
| Flexible, min. H05(07) V-K | 0.2 mm² | Flexible, max. H05(07) V-K | 2.5 mm² |
| Max. clamping range | 3.31 mm² | | |

### Rated data acc. to IEC

| | | | |
|---|---|---|---|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Tu=20°C) | 17 A |
| Rated current, max. no. of poles (Tu=20°C) | 13 A | Rated current, min. no. of poles (Tu=40°C) | 15 A |
| Rated current, max. no. 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 | 35 mm |
| VPE width | 160 mm | VPE height | 235 mm |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 3.0 | EC001284 | ETIM 4.0 | EC002636 |
| ETIM 5.0 | EC002636 | ETIM 6.0 | EC002638 |
| UNSPSC | 30-21-18-10 | eClass 5.1 | 27-26-07-01 |
| eClass 6.2 | 27-26-07-03 | eClass 7.1 | 27-44-01-01 |
| eClass 8.1 | 27-44-01-01 | eClass 9.0 | 27-44-03-09 |
| eClass 9.1 | 27-44-03-09 | | |

### Notes

| | |
|---|---|
| Notes | • Additional colours on request<br>• Rated current related to rated cross-section & min. No. of poles.<br>• Spacing between rows: see hole layout<br>• Rated cross-section depends on crimp contact used.<br>• 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.<br>• Max. outer diameter of the cable (with insulation): 3.5 mm |
| 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

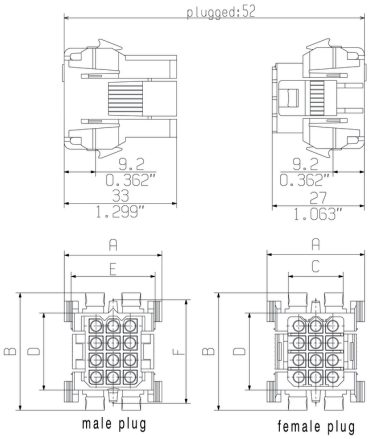
| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of the Manufacturer |
| Brochure/Catalogue | MB DEVICE MANUF. EN<br>CAT 2 PORTFOLIOGUIDE EN<br>FL 72H SAMPLE SER EN<br>PO OMNIMATE EN |
| Engineering Data | EPLAN, WSCAD |
| Engineering Data | RSV1.6.zip |

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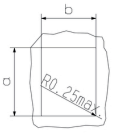
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## Drawings

### Dimensional drawing



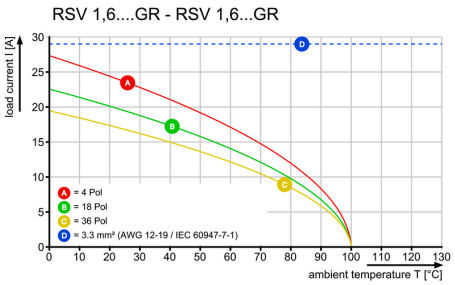

### Dimensional drawing




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

| | dimension male plug / female plug | | | | | mounting cut-out | |
|---|---|---|---|---|---|---|---|
| poles | A | B | C | D | E | a +0.2 | b +0.2 |
| 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 | 46,0 | 27,8 | 55,5 | 28,3 |

### Graph

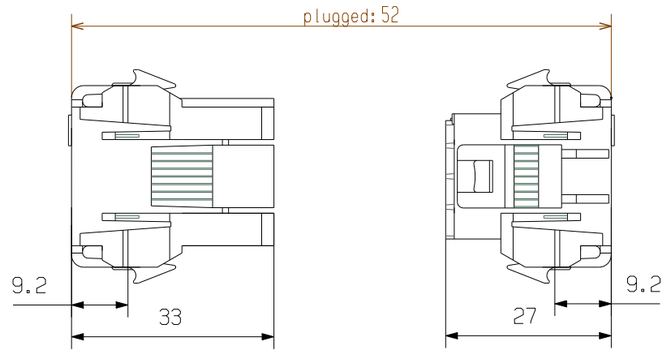


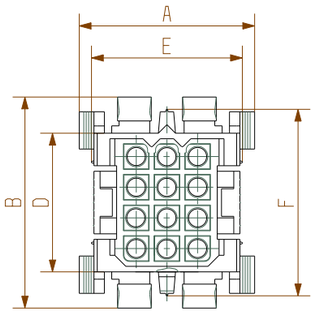
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Dimensions without tolerances are no check dimensions

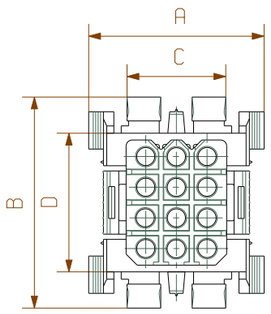
The English version is binding

## Assembly instruction:

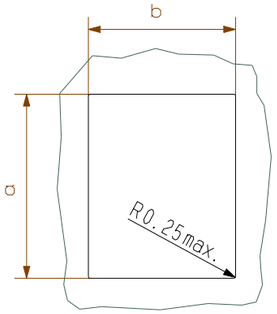


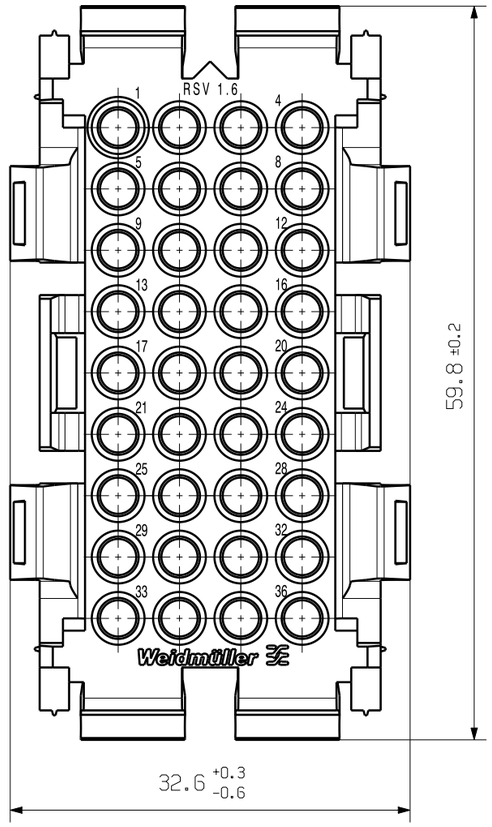

male plug

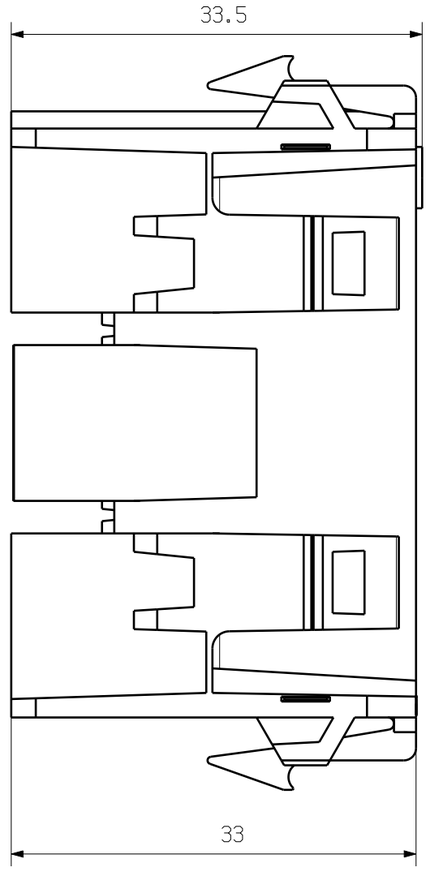


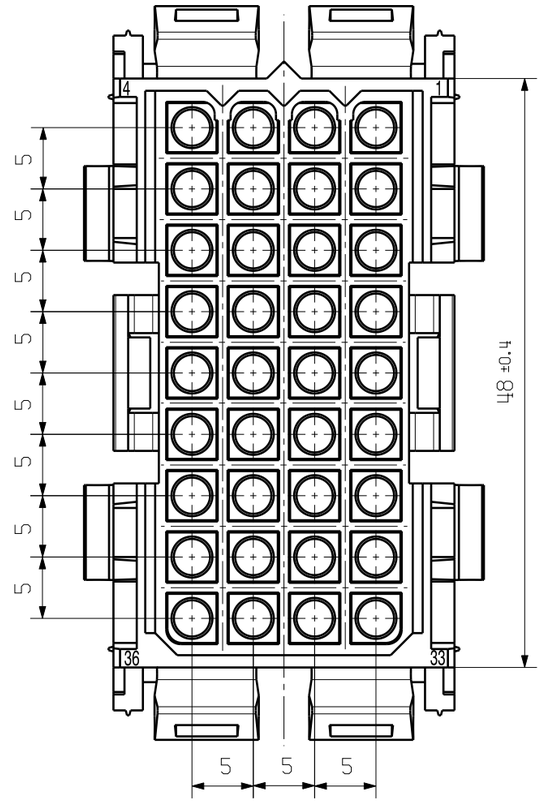

female plug




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





1
4
5
5
5