

RSM

RSM-4 48V- 1CO S

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

Relay bases (RSM) with common positive and negative to be connected to PLC or other type of controllers. The interfaces are made up of groups of 4, 8 or 16 RCL relays (12.7 mm) or RSS (6.1 mm). The connection to the controller can be set up using pluggable connectors or using direct cabling with IEC 60603-13 connectors. Wide range of options:

- 1 or 2 CO contacts with 16/8/6 A relays
- Voltages from 5 to 230 V
- Screw, tension clamp or PUSH IN connection
- Compatible with Weidmüller's solid-state relays

The range of relays provides galvanic isolation between input/output as well as between the adjacent contacts on the relays. This enables the various voltages in the controllers and those required by the various field elements to be safely adapted.

General ordering data

| | |
|------------|----------------------------------|
| Type | RSM-4 48V- 1CO S |
| Order No. | 1447510000 |
| Version | Interface, RSM, Screw connection |
| GTIN (EAN) | 4050118251999 |
| Qty. | 1 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|------------|-------|-----------------|------------|
| Length | 69 mm | Length (inches) | 2.717 inch |
| Width | 87 mm | Width (inches) | 3.425 inch |
| Height | 66 mm | Height (inches) | 2.598 inch |
| Net weight | 181 g | | |

Temperatures

| | | | |
|-----------------------------|-------------|-----------------------------|-------------|
| Operating temperature, max. | 50 °C | Operating temperature, min. | -25 °C |
| Storage temperature, max. | 60 °C | Storage temperature, min. | -40 °C |
| Operating temperature | -25...50 °C | Storage temperature | -40...60 °C |

General data

| | | | |
|------------------------------|-------|----------------------------------|--------|
| LED status display per relay | green | LED status of the supply voltage | yellow |
|------------------------------|-------|----------------------------------|--------|

Connection data

| | | | |
|----------------------------|------------|-------------------------|-----------|
| Connection on control side | LP 5.08 mm | Connection (field side) | LP 5.08mm |
|----------------------------|------------|-------------------------|-----------|

Rating data

| | |
|-------------------------|---------------------------------------|
| Mechanical service life | 30 x 10 ⁶ switching cycles |
|-------------------------|---------------------------------------|

Ratings data input

| | | | |
|---------------|---------------|---------------|--------|
| Input voltage | 48 V DC ± 10% | Input current | 8.7 mA |
|---------------|---------------|---------------|--------|

Ratings data output

| | | | |
|----------------------------|------------|-------------------------|------------------------|
| Relay type | RCL | Type of output | Potential-free contact |
| Contact material | AgNi 90/10 | Rated voltage (text) | ≤ 250 V AC |
| Max. AC continuous current | 6 A | Minimum contact current | 0.1 A |
| Minimum contact voltage | 5 V | | |

Insulation coordination (EN50178)

| | | | |
|--------------------------|----------|-------------------------------|------|
| Pollution severity level | 2 | Pulse voltage test (1,2/50µs) | 6 kV |
| Insulation test voltage | 1.2 kVAC | | |

Insulation coordinates (EN50178)

| | | | |
|-----------------------------------|-----------|------------------------------------|----------|
| Rated input insulation voltage | < 50 V AC | Rated output insulation voltage | 250 V AC |
| Overvoltage category input/output | III | Overvoltage category output/output | II |
| Pollution severity level | 2 | Pulse voltage test (1,2/50µs) | 6 kV |
| Insulation test voltage | 1.2 kVAC | Clearance input/output | ≥ 5.5 mm |

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Connection field

| | | | |
|------------------------------|---------------------|----------------------------------|----------------------|
| Type of connection | Screw connection | Clamping range, min. | 0.13 mm ² |
| Clamping range, max. | 6 mm ² | Solid, min. H05(07) V-U | 0.5 mm ² |
| Solid, max. H05(07) V-U | 6 mm ² | Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 4 mm ² | Flexible with sleeve, max. | 2.5 mm ² |
| Flexible with sleeve, min. | 0.5 mm ² | Sleeve with plastic collar, max. | 2.5 mm ² |
| Min. wire cross-section, AWG | AWG 26 | Max. wire cross-section, AWG | AWG 12 |
| Tightening torque, min. | 0.5 Nm | Tightening torque, max. | 0.6 Nm |
| Stripping length | 6 mm | | |

Classifications

| | | | |
|-------------|-------------|------------|-------------|
| ETIM 6.0 | EC002780 | ETIM 7.0 | EC002780 |
| eClass 9.0 | 27-14-11-52 | eClass 9.1 | 27-24-22-16 |
| eClass 10.0 | 27-14-11-52 | | |

Approvals

Approvals



Downloads

Brochure/Catalogue [CAT 4.5 ELECTR 16/17 EN](#)

Data sheet

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Drawings

