

RSMS-16 24V- 1CO S

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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

| | |
|------------|----------------------------------|
| Version | Interface, RSM, Screw connection |
| Order No. | 1457010000 |
| Type | RSMS-16 24V- 1CO S |
| GTIN (EAN) | 4050118263268 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



| | |
|-----------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UR) | E141197 |

Dimensions and weights

| | | | |
|------------|--------|-----------------|-------------|
| Depth | 85 mm | Depth (inches) | 3.3464 inch |
| Height | 109 mm | Height (inches) | 4.2913 inch |
| Width | 112 mm | Width (inches) | 4.4094 inch |
| Net weight | 359 g | | |

Temperatures

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

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 71d9bdc4-a0b5-4af0-93bd-2ad4e523fb14 |

Rated data UL

| | | | |
|--------------------------------|-------|---|-------|
| Rated current IN | 7.1 A | Operating temperature UL, min. | 0 °C |
| Operating temperature UL, max. | 25 °C | Rated voltage DC UN (supply) | 24 V |
| Rated current (supply) | 1 A | Rated voltage DC UN (input) | 24 V |
| Rated voltage AC UN (output) | 250 V | Rated current I _{max} (output) | 4.5 A |

General data

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

Connection data

| | | | |
|-------------------------|--------------|----------------------------|------------------------|
| Connection (field side) | LL3R 5.08 mm | Connection on control side | LP 5.08 mm, LL 5.08 mm |
|-------------------------|--------------|----------------------------|------------------------|

Rating data

| | |
|-------------------------|--------------------------------------|
| Mechanical service life | 5 x 10 ⁶ switching cycles |
|-------------------------|--------------------------------------|

Ratings data input

| | | | |
|---------------|---------------|---------------|--------|
| Input voltage | 24 V DC ± 10% | Input current | 7.1 mA |
|---------------|---------------|---------------|--------|

Ratings data output

| | | | |
|----------------------|------------|----------------|------------------------|
| Relay type | RSS | Type of output | Potential-free contact |
| Material of contacts | AgNi 90/10 | Rated voltage | ≤ 250 V AC |

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| | | | |
|----------------------------|-------|-------------------------|--------|
| Max. AC continuous current | 4.5 A | Minimum contact current | 100 mA |
| Minimum contact voltage | 5 V | | |

Insulation coordination (EN50178)

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

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 AC | 1.2 kV | Clearance input/output | ≥ 5.5 mm |

Connection field

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002780 | ETIM 9.0 | EC002780 |
| ETIM 10.0 | EC002780 | ECLASS 14.0 | 27-14-11-52 |
| ECLASS 15.0 | 27-14-11-52 | | |

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Drawings

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