

**RSMS-16 48V- 1CO S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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.  | <a href="#">1457020000</a>       |
| Type       | RSMS-16 48V- 1CO S               |
| GTIN (EAN) | 4050118263480                    |
| Qty.       | 1 pc(s).                         |

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## Technical data

### Dimensions and weights

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Depth      | 85 mm  | Depth (inches)  | 3.346 inch |
| Height     | 109 mm | Height (inches) | 4.291 inch |
| Width      | 112 mm | Width (inches)  | 4.409 inch |
| Net weight | 335 g  |                 |            |

### Temperatures

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

### Environmental Product Compliance

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

### Rated data UL

|                                 |          |                                  |                   |
|---------------------------------|----------|----------------------------------|-------------------|
| Operating temperature UL, max.  | 50 °C    | Operating temperature UL, min.   | 0 °C              |
| Rated current $I_N$             | 4.5 A    | Rated voltage DC $U_N$ (supply)  | 48 V DC $\pm$ 10% |
| Rated current (supply)          | 2.6 A    | Rated voltage DC $U_N$ (input)   | 48 V DC $\pm$ 10% |
| Rated voltage AC $U_N$ (output) | 250 V AC | 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 <sup>6</sup> switching cycles |
|-------------------------|--------------------------------------|

### Ratings data input

|               |                   |               |        |
|---------------|-------------------|---------------|--------|
| Input voltage | 48 V DC $\pm$ 10% | Input current | 4.5 mA |
|---------------|-------------------|---------------|--------|

### Ratings data output

|                            |            |                         |                        |
|----------------------------|------------|-------------------------|------------------------|
| Relay type                 | RSS        | Type of output          | Potential-free contact |
| Contact material           | AgNi 90/10 | Rated voltage           | $\leq$ 250 V AC        |
| 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 (1,2/50 $\mu$ s) | 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 (1,2/50 $\mu$ s) | 6 kV          |
| Insulation test voltage           | 1.2 kVAC    | Clearance input/output              | $\geq$ 5.5 mm |

Creation date January 25, 2022 12:38:34 AM CET

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**Technical data****Connection field**

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

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002780    | ETIM 7.0    | EC002780    |
| ETIM 8.0    | EC002780    | ECLASS 9.0  | 27-14-11-52 |
| ECLASS 9.1  | 27-24-22-16 | ECLASS 10.0 | 27-14-11-52 |
| ECLASS 11.0 | 27-14-11-52 |             |             |

**Approvals**

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E141197 |

**Downloads**

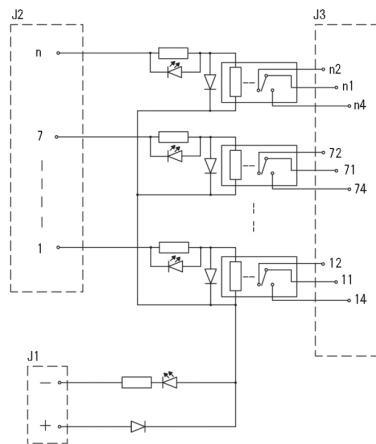
|                                             |                                                                    |
|---------------------------------------------|--------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a>                          |
| Product Change Notification                 | <a href="#">20210818 Technical change to RSMS relay interfaces</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                           |
| Brochures                                   |                                                                    |

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# Drawings



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