

**RSM-16 FOR 1CO S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Digital output interface per-relay for electrical signal transmission between the PLC and the field.

- Electrical isolation by pluggable relays.
- Integrated LED status display.
- Screw or tension clamp-connection.
- Additional functions: in-series fuse or isolator
- 2 versions available: compact (RSS relay) or standard (RCL relay).

**General ordering data**

|            |                                                       |
|------------|-------------------------------------------------------|
| Version    | Interface, RSM, 16 with switch, RCL, Screw connection |
| Order No.  | <a href="#">9445 140000</a>                           |
| Type       | RSM-16 FOR 1CO S                                      |
| GTIN (EAN) | 4032248252848                                         |
| Qty.       | 1 pc(s).                                              |

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**Technical data****Dimensions and weights**

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 75 mm  | Depth (inches)  | 2.953 inch  |
| Height     | 109 mm | Height (inches) | 4.291 inch  |
| Width      | 263 mm | Width (inches)  | 10.354 inch |
| Net weight | 905 g  |                 |             |

**Temperatures**

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

**General data**

|                                  |        |                   |        |
|----------------------------------|--------|-------------------|--------|
| LED status display per relay     | green  | Fuse per relay    | No     |
| LED status of the supply voltage | yellow | Power supply fuse | 3.15 A |

**Connection data**

|                         |            |                                |                                                       |
|-------------------------|------------|--------------------------------|-------------------------------------------------------|
| Connection (field side) |            | Connection on control side     | Plug-in connector in acc. with IEC60603-13 / DIN41651 |
|                         | LL 5.08 mm |                                |                                                       |
| Connection supply       | LL 5.08 mm | Number of poles (control side) | 20-pole plug                                          |

**Rating data**

|                         |                                      |
|-------------------------|--------------------------------------|
| Mechanical service life | 3 x 10 <sup>7</sup> switching cycles |
|-------------------------|--------------------------------------|

**Ratings data input**

|               |               |               |       |
|---------------|---------------|---------------|-------|
| Input voltage | 24 V DC ± 10% | Input current | 17 mA |
| Power rating  | 0.4 VA        |               |       |

**Ratings data output**

|                            |            |                         |                        |
|----------------------------|------------|-------------------------|------------------------|
| Relay type                 | RCL        | Type of output          | Potential-free contact |
| Contact material           | AgNi 90/10 | Rated voltage           | ≤ 250 Vdc ≤ 250 Vac    |
| Max. AC continuous current | 2 A        | AC peak current         | 16 A                   |
| Minimum contact current    | 0.01 A     | Minimum contact voltage | 10 V                   |

**Insulation coordinates (EN50178)**

|                                   |              |                                    |           |
|-----------------------------------|--------------|------------------------------------|-----------|
| According to                      | DIN EN 50178 | Rated input insulation voltage     | <50 V AC  |
| Rated output insulation voltage   | <250 V AC    | Overvoltage category input/input   | III       |
| 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  |
| Clearance input/input             | ≥ 0.2 mm     | Clearance output/output            | ≥ 1.17 mm |

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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    |                              |                      |

## Supply connection

|                              |                     |                                   |                      |
|------------------------------|---------------------|-----------------------------------|----------------------|
| Type of connection           | Screw connection    | Clamping range, min.              | 0.13 mm <sup>2</sup> |
| Clamping range, max.         | 6 mm <sup>2</sup>   | Solid, min. H05(07) V-U           | 0.5 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U      | 6 mm <sup>2</sup>   | Flexible, min. H05(07) V-K        | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K   | 4 mm <sup>2</sup>   | Flexible with sleeve, max.        | 2.5 mm <sup>2</sup>  |
| Flexible with sleeve, min.   | 0.5 mm <sup>2</sup> | Ferrule with plastic collar, max. | 2.5 mm <sup>2</sup>  |
| Wire cross-section, min. AWG | AWG 26              | Wire cross-section, max. 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    |
| ETIM 8.0    | EC002780    | ETIM 9.0    | EC002780    |
| ETIM 10.0   | 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 | ECLASS 12.0 | 27-14-11-52 |
| ECLASS 13.0 | 27-14-11-52 | ECLASS 14.0 | 27-14-11-52 |
| ECLASS 15.0 | 27-14-11-52 |             |             |

## Environmental Product Compliance

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| RoHS Compliance Status               | Compliant with exemption                           |
| RoHS Exemption (if applicable/known) | 7a, 7cl                                            |
| REACH SVHC                           | Lead 7439-92-1 4,4'-isopropylidenediphenol 80-05-7 |
| SCIP                                 | 66e752f3-a24f-4fef-89c4-f29f52d01390               |

## Approvals

Approvals



|                 |                                                                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> |
| ROHS            | Conform                                                                                                                                                                     |

## Downloads

|                                             |                                                         |
|---------------------------------------------|---------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a>               |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                         |
| Product Change Notification                 | <a href="#">20220525 Technical change to RS and RSM</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                |

Creation date May 11, 2025 11:18:21 PM CEST

Catalogue status 26.04.2025 / We reserve the right to make technical changes.

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## Drawings

