

**RSM**  
**RSM-8 C 1CO Z****Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
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**

|            |  |
|------------|--|
| Type       | RSM-8 C 1CO Z  |
| Order No.  | <a href="#">944700000</a>                                |
| Version    | Interface, RSM, 8 compact, RCL, Tension clamp connection |
| GTIN (EAN) | 4032248253104  |
| Qty.       | 1 pc(s).   |

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## Technical data

### Dimensions and weights

|        |        |            |        |
|--------|--------|------------|--------|
| Length | 110 mm | Width      | 109 mm |
| Height | 68 mm  | Net weight | 360 g  |

### Temperatures

|                       |             |                     |              |
|-----------------------|-------------|---------------------|--------------|
| Operating temperature | -25...+50°C | Storage temperature | -40...+60 °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 to PLC              | HE 10 connector - 20 pole | Connection on control side | Connector according IEC60603-13/DIN4 165 1 |
| Number of poles (control side) | 20-pole plug              | Connection (field side)    | LMNZF 5.08mm                               |
| Connection supply              | LMNZF 5.08mm              |                            |  |

### Rating data

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

### Ratings data input

|               |               |               |       |
|---------------|---------------|---------------|-------|
| Input voltage | 24 V DC ± 10% | Input current | 20 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 (text)    | ≤ 250 Vdc ≤ 250 Vac    |
| Max. AC continuous current | 5 A        | AC peak current         | 16 A                   |
| Minimum contact current    | 0.01 A     | Minimum contact voltage | 12 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/output  | 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           | 1.2 kVAC     | Clearance input/output             | ≥ 5.5 mm  |
| Clearance input/output            | ≥ 0.2 mm     | Clearance output/output            | ≥ 1.17 mm |

### Connection field

|                                      |                          |                                      |                      |
|--------------------------------------|--------------------------|--------------------------------------|----------------------|
| Type of connection                   | Tension clamp connection | Clamping range, min.                 | 0.13 mm <sup>2</sup> |
| Clamping range, max.                 | 2.5 mm <sup>2</sup>      | Solid, min. H05(07) V-U              | 0.5 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U              | 1.5 mm <sup>2</sup>      | Flexible, min. H05(07) V-K           | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K           | 1.5 mm <sup>2</sup>      | Flexible with sleeve, max.           | 1.5 mm <sup>2</sup>  |
| Min. wire cross-section, AWG [field] | AWG 26                   | Max. wire cross-section, AWG [field] | AWG 14               |
| Stripping length                     | 7 mm                     |                                      |                      |

**Data sheet**

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**Technical data**

**Supply connection**

|                              |                          |                              |                      |
|------------------------------|--------------------------|------------------------------|----------------------|
| Type of connection           | Tension clamp connection | Clamping range, min.         | 0.13 mm <sup>2</sup> |
| Clamping range, max.         | 2.5 mm <sup>2</sup>      | Solid, min. H05(07) V-U      | 0.5 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U      | 1.5 mm <sup>2</sup>      | Flexible, min. H05(07) V-K   | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K   | 1.5 mm <sup>2</sup>      | Flexible with sleeve, max.   | 1.5 mm <sup>2</sup>  |
| Wire cross-section, min. AWG | AWG 26                   | Wire cross-section, max. AWG | AWG 14               |
| Stripping length             | 7 mm                     |                              |                      |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001423    | UNSPSC     | 30-21-18-01 |
| eClass 5.1 | 27-24-22-08 | eClass 6.2 | 27-24-22-08 |
| eClass 7.1 | 27-24-22-08 |            |             |

**Product information**

|                              |  |
|------------------------------|--|
| Descriptive text accessories | Relay 8693260000 RCL314024 24 V DC 1CO |
|------------------------------|--|

**Approvals**

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

**Downloads**

|                           |                                |
|---------------------------|--------------------------------|
| Declaration of Conformity | <a href="#">K241_09_02.pdf</a> |
|---------------------------|--------------------------------|

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**Drawings**

