

**RSMS-16 12V- 1CO Z****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**

| Interface, RSM, Tension-clamp connection |                                          |
|------------------------------------------|------------------------------------------|
| Version                                  | Interface, RSM, Tension-clamp connection |
| Order No.                                | <a href="#">1457090000</a>               |
| Type                                     | RSMS-16 12V- 1CO Z                       |
| GTIN (EAN)                               | 4050118263459                            |
| Qty.                                     | 1 pc(s).                                 |

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

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Depth      | 76 mm  | Depth (inches)  | 2.992 inch |
| Height     | 109 mm | Height (inches) | 4.291 inch |
| Width      | 112 mm | Width (inches)  | 4.409 inch |
| Net weight | 303 g  |                 |            |

**Temperatures**

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

**Rated data UL**

|                                  |       |                                 |       |
|----------------------------------|-------|---------------------------------|-------|
| Operating temperature UL, max.   | 25 °C | Operating temperature UL, min.  | 0 °C  |
| Rated voltage DC $U_N$ (supply)  | 12 V  | Rated current (supply)          | 1 A   |
| Rated voltage DC $U_N$ (input)   | 12 V  | Rated voltage AC $U_N$ (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) | LM3RZF 5.08 | Connection on control side | LMZF |
|-------------------------|-------------|----------------------------|------|

**Rating data**

|                         |                                      |  |  |
|-------------------------|--------------------------------------|--|--|
| Mechanical service life | 5 x 10 <sup>6</sup> switching cycles |  |  |
|-------------------------|--------------------------------------|--|--|

**Ratings data input**

|               |                   |               |         |
|---------------|-------------------|---------------|---------|
| Input voltage | 12 V DC $\pm$ 10% | Input current | 14.2 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 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 (1,2/50 $\mu$ s) | 6 kV          |
| Insulation test voltage AC        | 1.2 kV      | Clearance input/output              | $\geq$ 5.5 mm |

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## Technical data

## Connection field

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

## 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                       |
| SCIP                                 | 71d9bdc4-a0b5-4af0-93bd-2ad4e523fb14 |

## 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> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/</a> |
| ROHS                  | Conform                                                                                                                                                                                                                                                                                                                                                 |
| UL File Number Search | UL Website                                                                                                                                                                                                                                                                                                                                              |
| Certificate No. (UR)  | E141197                                                                                                                                                                                                                                                                                                                                                 |

## Downloads

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |
| Brochures                                   |                                           |

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# Drawings

