

**RSM-16DI 24VDC Z****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Digital input interface with opto module or relay isolation for electrical signal transmission between the PLC and the field.

- Electrical isolation by pluggable relays.
- Integrated LED status display.

**General ordering data**

|            |                            |
|------------|----------------------------|
| Version    | Interface, RSM, Optos, LED |
| Order No.  | <a href="#">1312010000</a> |
| Type       | RSM-16DI 24VDC Z           |
| GTIN (EAN) | 4050118114454              |
| Qty.       | 1 pc(s).                   |

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## Technical data

## Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Height         | 72 mm      | Height (inches) | 2.835 inch |
| Length         | 124 mm     | Length (inches) | 4.882 inch |
| Net weight     | 343.24 g   | Width           | 109 mm     |
| Width (inches) | 4.291 inch |                 |            |

## Temperatures

|                     |             |                       |             |
|---------------------|-------------|-----------------------|-------------|
| Storage temperature | -20...70 °C | Operating temperature | -20...50 °C |
|---------------------|-------------|-----------------------|-------------|

## General data

|                              |       |                                  |        |
|------------------------------|-------|----------------------------------|--------|
| LED status display per relay | green | LED status of the supply voltage | yellow |
| Power supply fuse            | 2 A   |                                  |        |

## Connection data

|                            |                                                       |                                |              |
|----------------------------|-------------------------------------------------------|--------------------------------|--------------|
| Connection on control side | Plug-in connector in acc. with IEC60603-13 / DIN41651 | Number of poles (control side) | 20-pole plug |
| Wiring system              | 1-wire                                                |                                |              |

## Rating data

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

## Ratings data input

|               |               |               |       |
|---------------|---------------|---------------|-------|
| Input voltage | 24 V DC ± 10% | Input current | 13 mA |
|---------------|---------------|---------------|-------|

## Ratings data output

|                         |               |                            |                   |
|-------------------------|---------------|----------------------------|-------------------|
| Relay type              | RSS           | Contact material           | AgNi gold flashed |
| Rated voltage (text)    | 24 V DC ± 10% | Max. DC continuous current | 0.1 A             |
| Minimum contact current | 1 mA          | Minimum contact voltage    | 1 V               |

## Insulation coordinates (EN50178)

|                                  |           |                                   |           |
|----------------------------------|-----------|-----------------------------------|-----------|
| Rated input insulation voltage   | ≤ 50 V DC | Rated output insulation voltage   | ≤ 50 V DC |
| Overvoltage category input/input | III       | Overvoltage category input/output | III       |
| Pollution severity level         | 2         | Pulse voltage test (1,2/50µs)     | 1.5 kV    |
| Insulation test voltage          | 0.35 kVAC | Clearance input/output            | ≥ 6 mm    |

## Connection field

|                      |                          |                      |                      |
|----------------------|--------------------------|----------------------|----------------------|
| Clamping range, max. | 2.5 mm <sup>2</sup>      | Clamping range, min. | 0.13 mm <sup>2</sup> |
| Type of connection   | Tension-clamp connection |                      |                      |

## 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>      |                      |                      |

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|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002780    | ETIM 7.0    | 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

**Downloads**Approval/Certificate/Document of  
Conformity[Declaration of Conformity](#)

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# Drawings

