

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

Klingenbergstraße 26

D-32758 Detmold

Germany

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. | 1312010000 |
| Type | RSM-16DI 24VDC Z |
| GTIN (EAN) | 4050118114454 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

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

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 ⁶ 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 | 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 AC | 0.35 kV | Clearance input/output | ≥ 6 mm |

Connection field

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

Supply connection

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

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Technical data

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002780 | ETIM 7.0 | EC002780 |
| ETIM 8.0 | EC002780 | ETIM 9.0 | 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 | | |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 71d9bdc4-a0b5-4af0-93bd-2ad4e523fb14 |
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cl |

Approvals

Approvals



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

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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Drawings

