

RSM

RSM-16 24V(-/+) 1CO Z

Weidmüller Interface GmbH & Co. KG
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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-16 24V(-/+) 1CO Z
Order No.	9444660000
Version	Interface, RSM, 16, RCL, Tension-clamp connection
GTIN (EAN)	4032248252572
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	267 mm	Length (inches)	10.512 inch
Width	87.5 mm	Width (inches)	3.445 inch
Height	68 mm	Height (inches)	2.677 inch
Net weight	620 g		

Temperatures

Operating temperature, max.	40 °C	Operating temperature, min.	-25 °C
Storage temperature, max.	60 °C	Storage temperature, min.	-40 °C
Operating temperature	-25...40 °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	No

Connection data

Connection to PLC	HE 10 connector - 20 pole	Connection on control side	Plug-in connector in acc. with IEC60603-13 / DIN41651
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 ⁷ switching cycles
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Ratings data input

Input voltage	24 V DC ± 10%	Input current	22 mA
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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	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/output	III
Overvoltage category input/input	III	Overvoltage category output/output	II
Pollution severity level	2	Pulse voltage test (1,2/50µs)	6 kV
Insulation test voltage	2.5 kVAC	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**

Type of connection	Tension-clamp connection	Clamping range, min.	0.15 mm ²
Clamping range, max.	1.5 mm ²	Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	1.5 mm ²	Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	1.5 mm ²	Flexible with sleeve, max.	1.5 mm ²
Min. wire cross-section, AWG	AWG 26	Max. wire cross-section, AWG	AWG 14
Stripping length	7 mm		

Supply connection

Type of connection	Tension-clamp connection	Clamping range, min.	0.15 mm ²
Clamping range, max.	1.5 mm ²	Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	1.5 mm ²	Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	1.5 mm ²	Flexible with sleeve, max.	1.5 mm ²
Wire cross-section, min. AWG	AWG 26	Wire cross-section, max. AWG	AWG 14
Stripping length	7 mm		

Classifications

ETIM 3.0	EC001423	ETIM 4.0	EC001423
ETIM 5.0	EC001423	ETIM 6.0	EC002780
UNSPSC	30-21-18-01	eClass 5.1	27-24-22-08
eClass 6.2	27-24-22-08	eClass 7.1	27-14-11-52
eClass 8.1	27-14-11-52	eClass 9.0	27-14-11-52
eClass 9.1	27-24-22-16		

Approvals

Approvals



ROHS

Conform

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Conformity[K241_09_02.pdf](#)

Engineering Data

[WSCAD](#)

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Drawings

