

RSM16-I 24V+ 1CO S

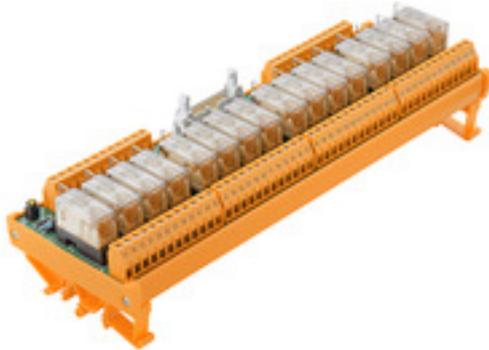
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Version	Interface, RSM, Screw connection
Order No.	1448540000
Type	RSM16-I 24V+ 1CO S
GTIN (EAN)	4050118253146
Qty.	1 pc(s).

RSM16-I 24V+ 1CO S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data**Dimensions and weights**

Depth	77 mm	Depth (inches)	3.031 inch
Height	87 mm	Height (inches)	3.425 inch
Width	259 mm	Width (inches)	10.197 inch
Net weight	595.06 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 current I_N	16.7 mA	Rated voltage DC U_N (supply)	24 V
Rated current (supply)	1 A	Rated voltage DC U_N (input)	24 V
Rated voltage AC U_N (output)	250 V	Rated current I_{max} (output)	4.6 A

General data

LED status display per relay	green	LED status of the supply voltage	yellow
------------------------------	-------	----------------------------------	--------

Connection data

Connection (field side)	LL 5.08 mm	Connection on control side	LP 5.08 + plug-in connector in acc. with IEC60603-13 / DIN41651, 20-pin, LL 5.08 mm
-------------------------	------------	----------------------------	---

Rating data

Mechanical service life	10 x 10 ⁶ switching cycles
-------------------------	---------------------------------------

Ratings data input

Input voltage	24 V DC ± 10%	Input current	16.7 mA
---------------	---------------	---------------	---------

Ratings data output

Relay type	RCI	Type of output	Potential-free contact
Contact material	AgNi 90/10	Rated voltage	≤ 250 V AC
Max. AC continuous current	6 A	Minimum contact current	0.1 A
Minimum contact voltage	5 V		

Insulation coordination (EN50178)

Pollution severity level	2	Pulse voltage test (1,2/50μs)	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 (1,2/50μs)	6 kV
Insulation test voltage AC	1.2 kV	Clearance input/output	≥ 5.5 mm

Creation date June 12, 2025 11:45:52 AM CEST

Catalogue status 07.06.2025 / We reserve the right to make technical changes.

2

RSM16-I 24V+ 1CO S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data**Connection field**

Clamping range, max.	6 mm ²	Clamping range, min.	0.5 mm ²
Flexible with sleeve, max.	2.5 mm ²	Flexible with sleeve, min.	0.5 mm ²
Flexible, max. H05(07) V-K	4 mm ²	Flexible, min. H05(07) V-K	0.5 mm ²
Max. wire cross-section, AWG	AWG 12	Min. wire cross-section, AWG	AWG 26
Sleeve with plastic collar, max.	2.5 mm ²	Solid, max. H05(07) V-U	6 mm ²
Solid, min. H05(07) V-U	0.5 mm ²	Stripping length	6 mm
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm
Type of connection	Screw 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	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E141197

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	CAD data – STEP
Product Change Notification	20210816 Technical change to RSM relay interfaces 20220525 Technical change to RS and RSM
Catalogues	Catalogues in PDF-format
Brochures	

RSM16-I 24V+ 1CO S

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

