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# RSM-Series RSM 4RS 24VDC LP GEM.-

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold

Germany Fon: +49 5231 14-0

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Clip-on RS 30. 31. 32 relay bases are available in widths from 11.2 to 25 mm, depending on the type.

The RSM relay multiplexers are available as 4, 8 and 16-way modules. To reduce the wiring work, the DC variants are fitted with a common plus or minus potential. The optional IEC603-1 plug-in connector enables the connection of pre-assembled lines.

The screw connection system is used to connect the conductor with a rated cross-section of 2.5 mm<sup>2</sup>.

### **General ordering data**

Order No.	<u>1113361001</u>
Туре	RSM 4RS 24VDC LP GEM
Version	RSM-Series, Relays, No. of contacts: 1, CO contact, AgNi 90/10, Rated control voltage: 24 V DC, Continuous current: 6 A, Screw connection
GTIN (EAN)	4032248036288
Qty.	1 pc(s).



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# **Technical data**

## **Ratings**

Screw connection   no condensation	natings			
Screw connection   No condensation   No condensation				
Dimensions and weights	Conductor connection system	Sorow connection	Humidity	40 °C / 93 % rel. humidity
Width 75 mm Height 87 mm Depth 76 mm Net weight 155.02 g  Temperatures  Operating temperature -25 °C+50 °C Storage temperature -40 °C+60 °C  Connection data  Clamping range, rated connection 2.5 mm² Clamping range, rated connection, min. 0.5 mm²  Clamping range, rated connection, max. 4 mm² Stripping length, rated connection 8 mm  Wire connection cross section, finely stranded, max. 2.5 mm²  Input  Rated control voltage 24 V DC Rated current DC 6 A Pull-in / drop-out current, AC coil 23 mA / 2 mA  Status indicator LED yellow  Output  Max. switching voltage, AC 250 V Continuous current 6 A making current 8 A Max. switching power 2000 VA Switch-on delay <8 ms Min. switching power 2000 VA Switch-on delay <7 ms  Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact design CO contact Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact design CO contact Mechanical service life of AC coil >7xx10³ Switching cycles  Insulation coordination  Rated voltage 250 V Clearance and creepage distances for control side - load side >3 mm  Clearance and creepage distances for control side - load side >3 mm  Clearance and creepage distances for control side - load side >3 mm  Deplution severity 2 Contact design Protection degree IP 20  Cother technical data	Wire cross-section, solid, max.			110 Condensation
Depth   76 mm   Net weight   155.02 g	Dimensions and weights			
Depth   76 mm   Net weight   155.02 g				
Temperatures  Operating temperature				
Operating temperature -25 °C+50 °C Storage temperature -40 °C+60 °C  Connection data  Clamping range, rated connection pax. 4 mm² Stripping length, rated connection, min. 0.5 mm² Stripping length, rated connection pay. 4 mm² Stripping length, rated connection pay. 4 mm Pax. 2.5 mm² Stripping length, rated connection pay. 4 mm Pax. 2.5 mm² Status indicator LED yellow  Output  Max. switching voltage, AC 250 V Continuous current pay. 4 ms Switch-on delay 4 ms Sams Switch-on delay 4 ms Switch-on delay 4 ms Sams Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact specifications  No. of contacts 1 Contact material AgNi 90/10 Electrical service life of AC coil > 7x10² Switching cycles  Inpulse withstand voltage 4 kV Processing protection of the prote	Depth	76 mm	Net weight	155.02 g
Clamping range, rated connection 2.5 mm² Clamping range, rated connection, max. 4 mm² Stripping length, rated connection, min. 0.5 mm² Stripping length, rated connection 8 mm Stripping length, rated connection, min. 0.5 mm² Stripping length, rated connection 8 mm Str	Temperatures			
Clamping range, rated connection 2.5 mm² Clamping range, rated connection, max. 4 mm² Stripping length, rated connection, min. 0.5 mm² Stripping length, rated connection, min. 0.5 mm² Stripping length, rated connection 8 mm Stripping length, rated connection 9 mm Stripping length, rate	Operating temperature	-25 °C+50 °C	Storage temperature	-40 °C+60 °C
Clamping range, rated connection, max. 4 mm² Wire connection cross section, finely stranded, max.    Input	Connection data			
Clamping range, rated connection, max. 4 mm² Wire connection cross section, finely stranded, max.    Input	Clamping range, rated connection	2.5 mm <sup>2</sup>	Clamping range, rated connection, min	0.5 mm²
Wire connection cross section, finely stranded, max.    Input				
Input  Rated control voltage 24 V DC Action (LED yellow)  Output  Max. switching voltage, AC 250 V Action (LED yellow)  Max. switching voltage, AC 250 V Action (LED yellow)  Max. switching voltage, AC 250 V Action (LED yellow)  Max. switching voltage, AC 250 V Action (LED yellow)  Max. switching voltage, AC 250 V Action (LED yellow)  Max. switching voltage, AC 250 V Action (LED yellow)  Max. switching voltage, AC 250 V Action (LED yellow)  Max. switching voltage, AC 250 V Action (LED yellow)  Max. switching power 2000 V Action (LED yellow)  Max. switching power 250 mW  Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact design CO contact (LED yellow)  No. of contacts 1 AgNi 90/10 Agn			<u></u>	
Rated control voltage 24 V DC Power rating 0.75 W Pull-in / drop-out current, AC coil 23 mA / 2 mA  Status indicator LED yellow  Output  Max. switching voltage, AC 250 V Continuous current 6 A Max. switching power 2000 VA  Switch-on delay < 8 ms Switch-off delay < 7 ms  Duration of Bounce ≤ 3 ms Min. switching power 250 mW  Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact design CO contact Mechanical service life 30 x 10 <sup>6</sup> switching lelectrical service life of AC coil > 7x10 <sup>3</sup> Switching cycles  Insulation coordination  Rated voltage 250 V Clearance and creepage distances for control side - load side > 3 mm Protection degree IP 20  Pollution severity 2 Surge voltage category III  Other technical data		2.5 mm <sup>2</sup>		
Power rating 0.75 W Status indicator LED yellow  Output  Max. switching voltage, AC 250 V Continuous current 6 A Max. switching power 2000 VA Switch-on delay 4 8 ms Suitch-ond felay 5 ms Min. switching power 250 mW  Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact design CO contact Mechanical service life of AC coil 5 x 10 x 10 x 10 s switching lettrical service life of AC coil 5 x 10 x 10 s switching lettrical service life, DC coil 5 x 10 s 10	Input			
Power rating 0.75 W Status indicator LED yellow  Output  Max. switching voltage, AC 250 V Continuous current 6 A Max. switching power 2000 VA Switch-on delay 4 8 ms Switch-off delay 7 ms Min. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact design CO contact Mechanical service life of AC coil 30 x 10 <sup>6</sup> switching leterical service life of AC coil 5 x 10 contact service life, DC coil 5 x 10 contact service life, DC coil 5 x 10 contact switching leterical service life of AC coil 5 x 10 contact service life 5 x 10 contact service life, DC coil 5 x 10 contac	Rated control voltage	24 V DC	Rated current DC	6 Δ
Status indicator LED yellow  Output  Max. switching voltage, AC 250 V Continuous current 6 A Max. switching power 2000 VA Switch-on delay < 8 ms Suritch-off delay < 7 ms Min. switching power 250 mW  Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact design CO contact Contact material AgNi 90/10 Mechanical service life of AC coil > 7x10³ Switching cycles  Insulation coordination  Rated voltage 250 V Clearance and creepage distances for control side - load side > 3 mm Min. switching degree IP 20  Other technical data				
Max. switching voltage, AC       250 V       Continuous current       6 A         making current       8 A       Max. switching power       2000 VA         Switch-on delay       < 8 ms			- u, a.ep out ou, 10 oo	20111111
making current 8 A Max. switching power 2000 VA Switch-on delay <8 ms  Duration of Bounce ≤3 ms  Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact design CO contact Contact material AgNi 90/10 Mechanical service life of AC coil >7x10³ Switching cycles  Insulation coordination  Rated voltage 250 V Clearance and creepage distances for control side - load side >3 mm  Impulse withstand voltage 4 kV Protection degree IP 20  Other technical data  Max. switching power 2000 VA Switching power 250 mW  Min. switching power 250 mW  Contact design CO contact Mechanical service life 30 x 10⁵ switching Electrical service life, DC coil >5x10⁵ switching Control side - load side >3 mm  Protection degree IP 20  Other technical data	Output			
making current 8 A Max. switching power 2000 VA Switch-on delay <8 ms  Duration of Bounce ≤3 ms  Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact material AgNi 90/10 Electrical service life of AC coil >7x10³ Switching cycles  Insulation coordination  Rated voltage 250 V Electrical service life 4 kV Protection degree IP 20  Other technical data  Max. switching power 2000 VA Switching power 250 mW  Min. switching power 250 mW  Contact design CO contact Mechanical service life 30 x 10⁵ switching Electrical service life 50 x 10⁵ switching Electrical service life, DC coil >5x10⁵ switching Electrical service life, DC coil >5x10⁵ switching Switching Switching Electrical service life, DC coil >5x10⁵ switching Electrical service life, DC coil >5x10⁵ switching Switching Switching Switching Switching Switching Electrical service life, DC coil Switching Swi	Mary avoitalein marylana AC	250.1/	Continuous	C A
Switch-on delay <8 ms Duration of Bounce ≤3 ms Min. switching power 250 mW   Contact specifications  No. of contacts 1 Contact material AgNi 90/10 Electrical service life of AC coil >7x10³ Switching cycles  Insulation coordination  Rated voltage 250 V Impulse withstand voltage 4 kV Pollution severity 2  Other technical data  Switch-off delay <7 ms Min. switching power 250 mW  Min. switching power 250 mW  Contact design CO contact Mechanical service life 30 x 10⁶ switching Electrical service life, DC coil >5x10⁶ switching Electrical service life, DC coil >5x10⁶ switching Electrical service life, DC coil >5 mm  Switch-off delay <7 ms Min. switching power 250 mW  Clearance and cresing Electrical service life 30 x 10⁶ switching Electrical service life, DC coil >5x10⁶ switching Electrical service life, DC coil >5x10ఠ switching Electrical service life, DC coil >5x10ఠ switching Electrical service life Switching Electrical service life Swit				
Duration of Bounce       ≤ 3 ms       Min. switching power       250 mW         Contact specifications         No. of contacts       1       Contact design       CO contact         Contact material       AgNi 90/10       Mechanical service life       30 x 10 <sup>6</sup> switching         Electrical service life of AC coil       > 7x10 <sup>3</sup> Switching cycles       Electrical service life, DC coil       > 5x10 <sup>5</sup> switching         Insulation coordination         Rated voltage       250 V       Clearance and creepage distances for control side - load side       > 3 mm         Impulse withstand voltage       4 kV       Protection degree       IP 20         Pollution severity       2       Surge voltage category       III         Other technical data				
Max. switching frequency at rated load 0.1 Hz  Contact specifications  No. of contacts 1 Contact design CO contact Contact material AgNi 90/10 Mechanical service life 30 x 10 <sup>6</sup> switching Electrical service life of AC coil > 7x10 <sup>3</sup> Switching cycles  Insulation coordination  Rated voltage Clearance and creepage distances for control side - load side > 3 mm Impulse withstand voltage 4 kV Protection degree IP 20 Pollution severity 2 Surge voltage category III  Other technical data				
Contact specifications  No. of contacts  1			Will. Switching power	230 11100
Contact material  AgNi 90/10  Electrical service life of AC coil  > 7x10³ Switching cycles    Clearance and creepage distances for control side - load side   Pollution severity   2   Surge voltage category   III				
Contact material  AgNi 90/10  Electrical service life of AC coil  > 7x10³ Switching cycles    Clearance and creepage distances for control side - load side   Summary of the control service life   Summary of the control side   Summary of the control side   Summary of the control side   Summary of the control service life   Summary of t				
Electrical service life of AC coil > 7x10 <sup>3</sup> Switching cycles    Clearance and creepage distances for control side - load side   > 3 mm				
Insulation coordination  Rated voltage  250 V  Impulse withstand voltage  Pollution severity  Clearance and creepage distances for control side - load side  > 3 mm  Protection degree  Surge voltage category  III  Other technical data	Contact material	AgNi 90/10	Mechanical service life	30 x 10 <sup>6</sup> switching cycles
Rated voltage  250 V  Impulse withstand voltage Pollution severity  Clearance and creepage distances for control side - load side Protection degree IP 20 Surge voltage category III  Other technical data	Electrical service life of AC coil	> 7x10 <sup>3</sup> Switching cycles	Electrical service life, DC coil	> 5x10 <sup>5</sup> switching cycles
250 V control side - load side > 3 mm  Impulse withstand voltage 4 kV Protection degree IP 20  Pollution severity 2 Surge voltage category III  Other technical data	Insulation coordination			
250 V control side - load side > 3 mm  Impulse withstand voltage 4 kV Protection degree IP 20  Pollution severity 2 Surge voltage category III  Other technical data	Rated voltage		Clearance and creepage distances for	
Pollution severity 2 Surge voltage category III  Other technical data			control side - load side	
Other technical data				
	Pollution severity	2	Surge voltage category	III
Version Relay coupler Status indicator LED vellow	Other technical data			
	Version	Relay coupler	Status indicator	LED vellow
Free-wheel diode Yes Reverse polarity protection Available				



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# **Technical data**

## Further details of approvals / standards

Standards	DIN EN 50178		
Classifications			
ETIM 2.0	EC001437	ETIM 3.0	EC001437
UNSPSC	30-21-19-17	eClass 4.1	40-02-06-14
eClass 5.1	27-37-16-01	eClass 6.0	27-37-16-01
eClass 7.0	27-37-16-01		

#### **Approvals**

Approvals



### **Downloads**

Declaration of Conformity	K34_05_10.pdf