DATASHEET - RS2R-02-Q4

Safety switch, RS, 2 NC, Reed contacts, Ue 24 V DC, -10 - +55 °C, Plastic, Connecting cable 150 mm with plug connection M12 x 1, Sn 8 - 19 mm, R

Powering Business Worldwide™

Part no. RS2R-02-Q4
177295

General specifications	
Product name	Eaton Moeller® series RS Safety switch
Part no.	RS2R-02-Q4
EAN	4015081717484
Product Length/Depth	52 millimetre
Product height	13 millimetre
Product width	26 millimetre
Product weight	0.057 kilogram
Certifications	CSA File No.: UL report applies to both US and Canada CE UL File No.: E166051 ISO 14119 Certified by UL for use in Canada EN ISO 13849 UL Category Control No.: NRKH, NRKH7 UL IEC 62061
Product Tradename	RS
Product Type	Safety switch
Product Sub Type	None
Catalog Notes	Reed contacts
Features & Functions	
Electric connection type	Connector M12
Enclosure material	Plastic
Material	Plastic
General information	
Connection type	Plug-in connection M12 x 1
Degree of protection	IP67 NEMA Other
Product category	Non-contacting safety switch
Rated switching distance (Sn) - min	8 mm
Rated switching distance (Sn) - max	19 mm
Repetition accuracy	≤ 10 % (deviation)
Suitable for	Safety functions
Type	Safety position switch
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	30 g, Shock duration 11 ms, Half-Sinusoidal
Vibration resistance	0 - 2000 Hz, 1 mm
Climatic environmental conditions	
Ambient operating temperature - min	-10 °C
Ambient operating temperature - max	55 °C
Relative humidity	90 % (at 55 °C)
Terminal capacities	
Terminal capacity (AWG)	22
Electrical rating	
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	0 A
Rated operational current (Ie) at AC-15, 24 V	0 A
Rated operational current (Ie) at DC-13, 125 V	0 A
Rated operational current (Ie) at DC-13, 220 V, 230 V	0 A
Rated operational current (Ie) at DC-13, 24 V	0.3 A

Rated operational voltage		24 V DC
Contacts		
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		2
Number of contacts (normally open contacts)		0
Safety		
Explosion safety category for gas		None
Explosion safety category for dust		None
Safety parameter (EN ISO 13849-1)		20,000,000 switching cycles, B10d PL e, Performance level
Safety parameter (IEC 62061)		SIL: 3
Design verification		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdiss		0 W
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Sensors (EG000026) / Position switch with separate actuator (EC002592)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Mechanical switch (sensor technology) / Position switch with separate actuator (ecl@ss13-27-27-06-10 [ACN835016])

With status indication		No
Suitable for safety functions		Yes
Width sensor	mm	26
Height of sensor	mm	13
Length of sensor	mm	52
Forced opening		No
Number of safety auxiliary contacts		2
Number of contacts as normally closed contact		2
Number of contacts as normally open contact		0
Number of contacts as change-over contact		0
Type of switching contact		Other
Rated operation current Ie at AC-15, 24 V	A	0
Rated operation current Ie at AC-15, 125 V	A	0

Rated operation current Ie at AC-15, 230 V		A	0
Rated operation current Ie at DC-13, 24 V		A	0.3
Rated operation current Ie at DC-13, 125 V		A	0
Rated operation current Ie at DC-13, 230 V		A	0
Construction type housing			Cuboid
Housing material			Plastic
Coating housing			Plastic-coated
Type of interface			None
Type of interface for safety communication			None
Type of electric connection			Connector M12
Explosion safety category for gas			None
Explosion safety category for dust			None
Ambient temperature during operating		°C	-10 - 55
Degree of protection (IP)			IP67
Degree of protection (NEMA)			Other