Cost-Effective. Non-Contact. Easy Assembly.

Reed Switch RMS

Reed switches are mechanical switches that react to the presence of magnetic fields (magnets). They are frequently used as a low-cost alternative to electronic magnetic switches (MMS).

Field of Application

Used for monitoring gripping and rotary modules, as well as linear modules, and robot accessories. SCHUNK reed switches detect the presence of metal without contact and wear, and are not susceptible to dust, and moisture. Magnetic switches are installed in slots, and thus do not produce any additional interfering contours. Note that not all SCHUNK products that have a sensor slot can be monitored with low-priced RMS reed switches. For connection with a digital input module (utilization categorie DC-12).

Advantages – Your benefit

Attractive in price for cost-effective applications

Installation into the sensor groove for space-saving, easy and fast assembly

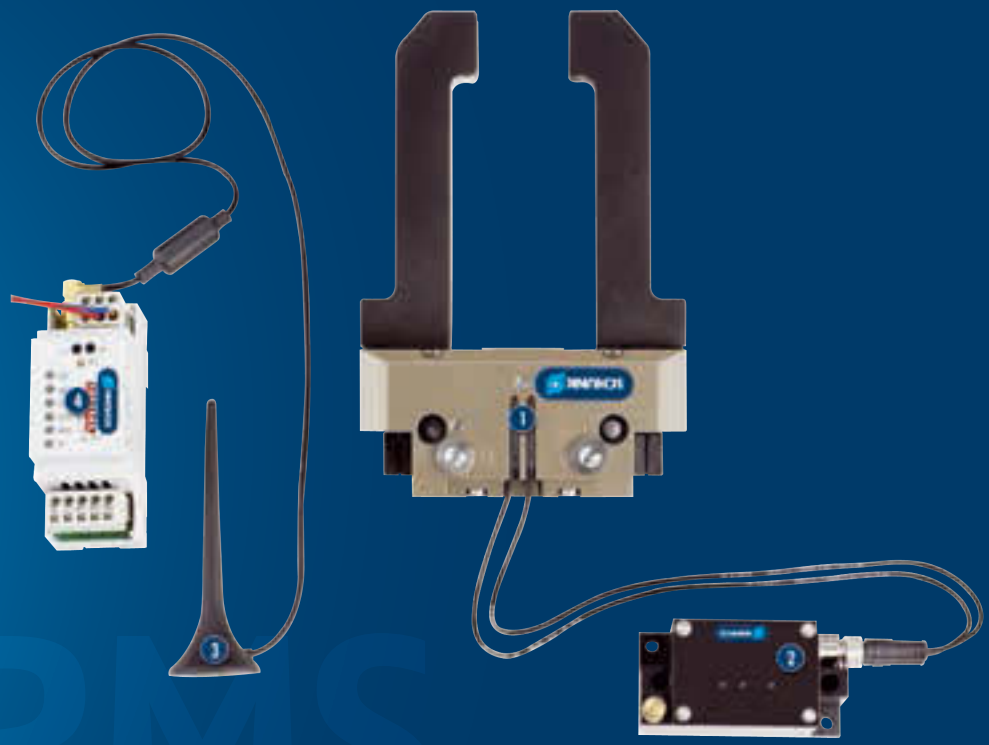
Version with connector for fast and easy exchangeability of the extension cable

Very flexible cable in PUR-version for a long service lifetime and resistance against many chemicals

Options and special Information

Sources of interference Sensors can be influenced by other magnetic fields in the immediate vicinity. Disturbing magnetic fields can be generated by motors, electric welders, permanent magnets or magnetized material (so-called soft magnets) such as allen keys, metal chips, etc.

Application Example



① **Reed Switch RMS 22 in the sensor slot of the Universal Gripper PGN-plus**

② **Transmitter Module RSS-T2**

③ **Magnetic Base Antenna RSS-R-A**

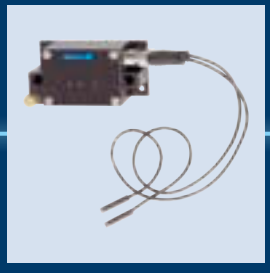
④ **Receiver RSS-R1**

SCHUNK offers more ...

The following components make the RMS even more productive – the perfect complement for highest functionality, flexibility and process reliability.

Sensor Distributor

Sensor Cables



Radio Sensor System RSS

Sensor Tester SST

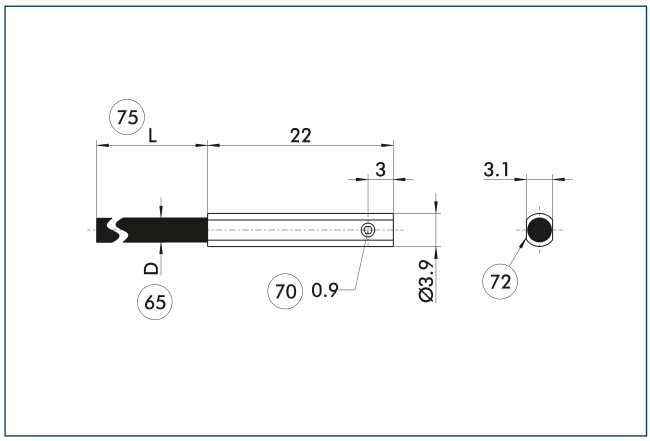
ⓘ Further information regarding the products can be found on the following product pages or at www.schunk.com. Please contact us for further information: SCHUNK technical hotline +49-7133-103-2696

RMS 22

Technical data

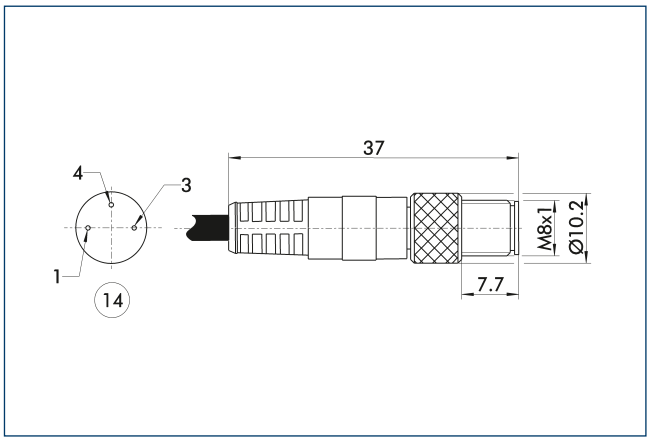
Description		RMS 22-S-M8
ID		0377720
Switching function		Closer
Product weight	[kg]	0.01
min. / max. ambient temperature	[°C]	-5/70
IP class (sensor)		67
IP class (sensor connected)		67
LED display in sensor		no
Type of voltage		DC/AC
Nominal voltage	[V]	24
min. voltage	[V]	10
max. voltage	[V]	120
max. switching current	[A]	0.4
Cable diameter D	[mm]	2.1
min. bending radius (dynamically)	[mm]	21
min. bending radius (statically)	[mm]	10.5
Number of wires		2
Wire cross section	[mm²]	0.14
Cable length L	[cm]	30
Cable connector / cable end		M8

RMS 22 main view



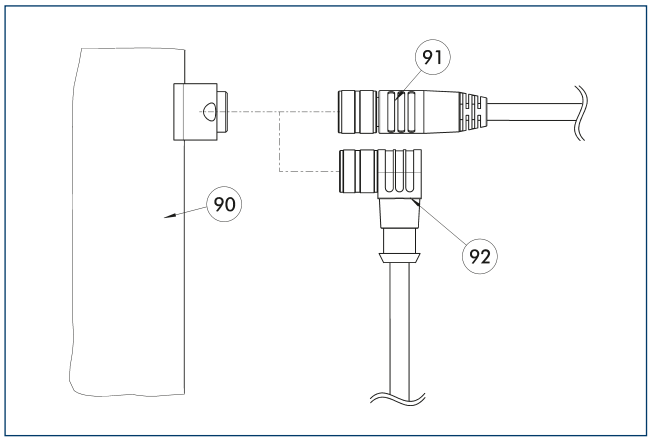
65 Cable diameter
70 Wrench size
72 Active sensor surface
75 Cable length

M8 connector



14 Connector

Cable connector / cable extension



90 Connecting point for component
91 Cable with straight connection
92 Cable with angular connection

Description	ID	Length	Connection electric cabinet sided	often combined
Connection cables				
KA BG08-L 3P-0300-PNP	0301622	3 m	open wires	●
KA BG08-L 3P-0500-PNP	0301623	5 m	open wires	
KA BW08-L 3P-0300-PNP	0301594	3 m	open wires	
KA BW08-L 3P-0500-PNP	0301502	5 m	open wires	
Cable extensions				
KV BW08-SG08 3P-0030-PNP	0301495	0.3 m	Connector	
KV BW08-SG08 3P-0100-PNP	0301496	1 m	Connector	
KV BW08-SG08 3P-0200-PNP	0301497	2 m	Connector	●

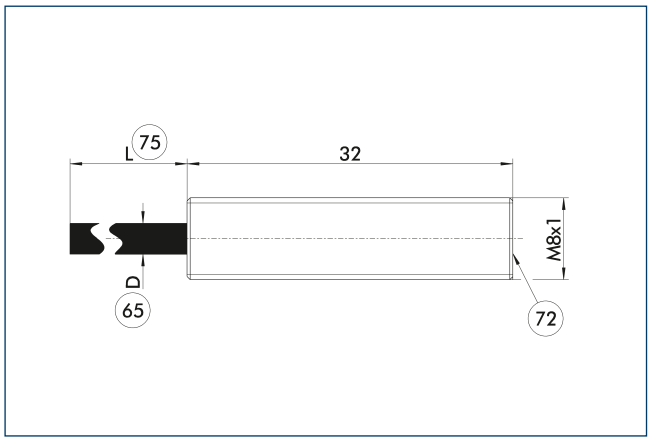
ⓘ BG stands for a connection cable with a straight female connector and BW for an angled female connector.

RMS 80

Technical data

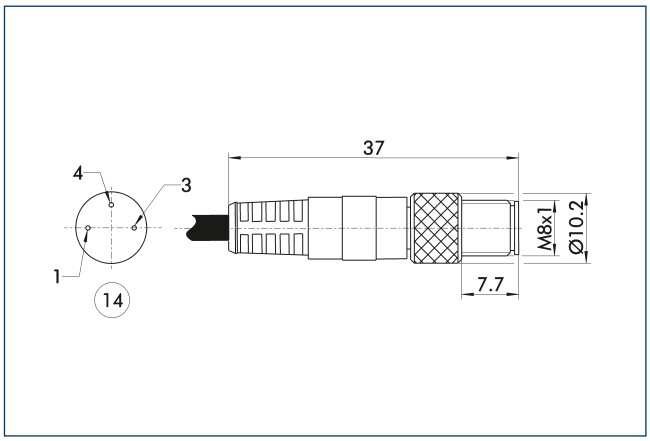
Description		RMS 80-S-M8
ID		0377721
Switching function		Closer
Product weight	[kg]	0.01
min. / max. ambient temperature	[°C]	-5/70
IP class (sensor)		67
IP class (sensor connected)		67
LED display in sensor		no
Type of voltage		DC/AC
Nominal voltage	[V]	24
min. voltage	[V]	10
max. voltage	[V]	120
max. switching current	[A]	0.4
Cable diameter D	[mm]	2.1
min. bending radius (dynamically)	[mm]	21
min. bending radius (statically)	[mm]	10.5
Number of wires		2
Wire cross section	[mm²]	0.14
Cable length L	[cm]	30
Cable connector / cable end		M8

RMS 80 main view



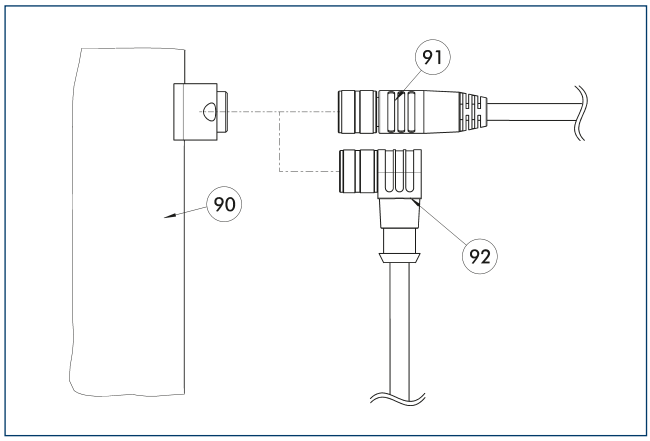
(65) Cable diameter
(75) Cable length
(72) Active sensor surface

M8 connector



(14) Connector

Cable connector / cable extension



(90) Connecting point for component
(91) Cable with straight connection
(92) Cable with angular connection

Description	ID	Length	Connection electric cabinet sided	often combined
Connection cables				
KA BG08-L 3P-0300-PNP	0301622	3 m	open wires	●
KA BG08-L 3P-0500-PNP	0301623	5 m	open wires	
KA BW08-L 3P-0300-PNP	0301594	3 m	open wires	
KA BW08-L 3P-0500-PNP	0301502	5 m	open wires	
Cable extensions				
KV BW08-SG08 3P-0030-PNP	0301495	0.3 m	Connector	
KV BW08-SG08 3P-0100-PNP	0301496	1 m	Connector	
KV BW08-SG08 3P-0200-PNP	0301497	2 m	Connector	●

ⓘ BG stands for a connection cable with a straight female connector and BW for an angled female connector.