

Sensors



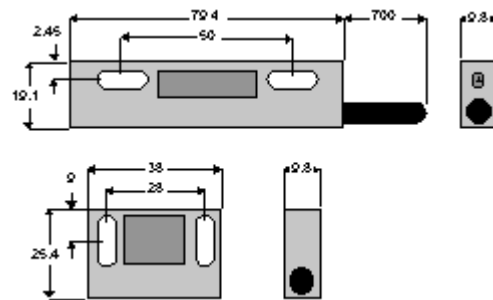
Sensors

Reed Proximity Sensors / Switches (sometimes referred to as magnetic sensors) are inherently reliable due to their simple construction and sealed reed switch contacts. They will give millions of operations at the stated ratings. Applications are numerous and examples of Reed Proximity Switch / Sensor applications can be found in most industries.

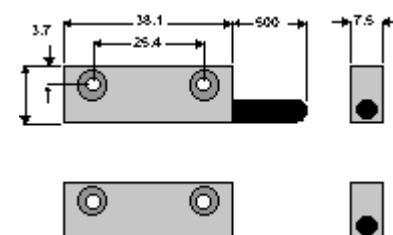
These devices are very tolerant to misalignment and are particularly suited to environments that are contaminated by dust, liquid and where non-contact interlocking or hygiene is a consideration.

Reed proximity sensors consist of two parts, the reed switch and the actuator magnet. The reed switch will change state when the actuator magnet comes into close proximity to it, there does not have to be any physical contact between the reed switch and actuator. There are up to three operating faces for both the reed switch and the actuator. The operating distance can be varied by the choice of actuator magnet. Both the reed switches and actuator magnets are housed in rugged cases and are suitable for use in harsh environments, some of the switches are able to switch heavy loads directly. The switch configurations are available with normally open or changeover contacts.

Heavy Duty Magnetic Reed Sensor and Actuator Magnet



Miniature Heavy Duty Reed Sensor and Actuator Magnet



Key Benefits

- ◆ Reliable
- ◆ Non-Contact Operation
- ◆ Tolerant to Misalignment
- ◆ Voltage Free Contacts

Specifications Table

Specifications	-	170842	NO/3/CD	170841	170838	170839
Contact Form	-	N/O	N/O	C/O	N/O	C/O
Max Rating	VA*	100	60	50	15	3
Max Voltage	dc	250	250	250	220	175
Max Switching Current	A	3	1.5	1.5	0.5	0.25
Max Carry Current	A	6	3	2	1	1
Contact Resistance	mΩ	100	150	500 **	100	150
Hold Off Voltage	dc	500	500	500	300	200
AM/4 Pull In / Make	mm	-	-	-	9	13
AM/4 Pull In / Make	mm	-	-	-	9	13
AM/5 Pull In / Make	mm	13	13	13	14	19

* do not exceed product of V x A

** Initial resistance @ 36Vdc 100 mA

Product Codes

Product Codes	Description
170842	Heavy Duty Normally Open
N/O3/CD	Heavy Duty Normally Open Close Differential
170841	Heavy Duty Changeover
170843	Heavy Duty Actuator Magnet
170838	Miniature Normally Open
170839	Miniature Changeover
170840	Miniature Actuator Magnet