

HYGIEMAG – Magnetic Non Contact – Type CMR



Magnetic Actuation - Power series Heavy Duty 230V.ac 2.0A. / 24V.dc 2.0A. IP69K

Switching Tolerance up to 14mm Temperatures up to 105C. Stainless Steel 316 housing

Specifically designed for Food Processing applications – Stainless Steel 316 Mirror finish

Suitable for CIP cleaning – can be high pressure hosed at high temperature – IP69K

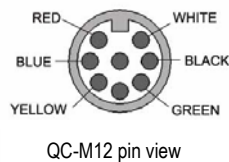
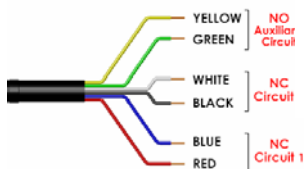
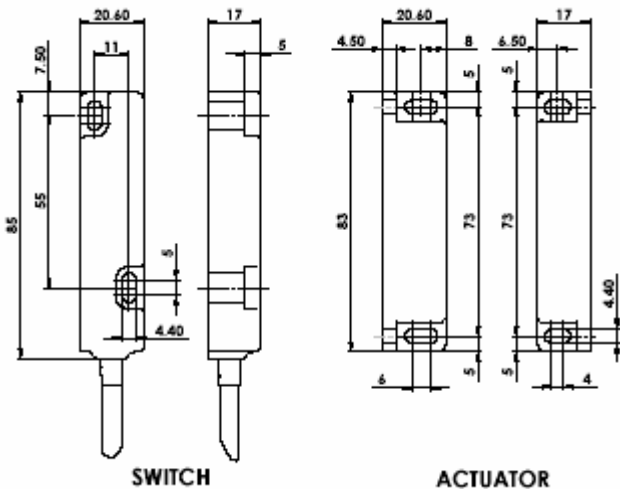
Slim 20mm wide housing – can be fitted into narrow channels

Wide 14mm sensing high tolerance to misalignment

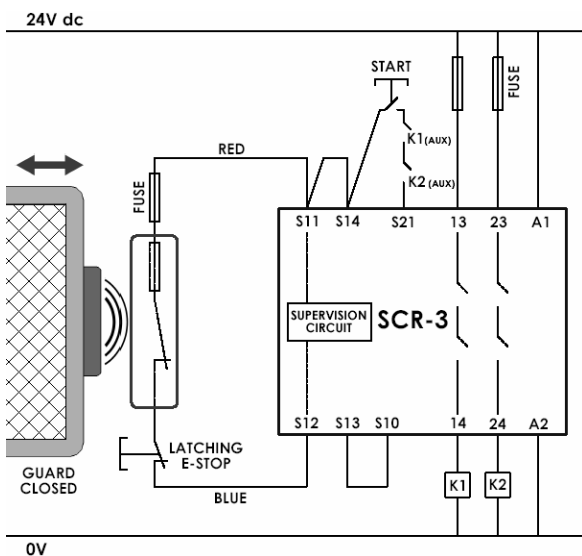
High switching capability – up to 2A.

Up to: PLe ISO 13849-1 SIL 3 EN 62061 Cat.4 EN 954-1

New



Application example – magnetic switches



One switch connected to an SCR-2 or SCR-3 to give Single Channel Guard monitoring but with monitored manual start and contactor feedback check. Allows minimal wiring but higher current switching to K1 and K2 contactors.

Standards EN1088 IEC 947-5-3 EN 60204-1
ISO 13849-1 EN 954-1 UL508

Safety Classification and Reliability Data:

Mechanical Reliability B10d > 3.3 x 10⁶ operations at 100mA load
EN 954-1 up to Category 4 with Safety Relay
ISO 13849-1 up to PLe depending upon system architecture
EN 62061 up to SIL3 depending upon system architecture
Safety Data - Annual Usage 8 cycles per hour / 24 hours per day / 365 days
PFHd > 2.52 x 10⁻⁸
Proof Test Interval (Life) 47 years
MTTFd 470 years

Heavy Duty	Safety Channel 1	NC	Voltage free : 250V.ac 2.0 A	Max. Rating
	Safety Channel 2	NC	Voltage free : 250V.ac 2.0 A	Max. Rating
	Safety Channel 3	NO	Voltage free : 24V.dc 0.2 A	Max. Rating
			Fuse Internal 2.0 A. (F) External 1.6A (F) (User)	
Medium Duty	Safety Channel 1	NC	Voltage free : 250V.ac 1.0 A	Max. Rating
	Safety Channel 2	NC	Voltage free : 250V.ac 1.0 A	Max. Rating
	Safety Channel 3	NO	Voltage free : 24V.dc 0.2 A	Max. Rating
			Fuse Internal 1.0 A. (F) External 0.8A (F) (User)	

Contact release time <2ms
Initial contact resistance <500 milliohm
Minimum switched current 10V. dc 1mA
Dielectric withstand 250V.ac
Insulation Resistance 100 Mohms
Recommended setting gap 5mm
Switching Distance: Sao 12mm Close (Target to target)
Sar 22mm Open
Tolerance to misalignment 5mm in any direction from 5mm setting gap
Switching frequency 1.0 Hz maximum
Approach speed 200mm/m. to 1000mm/s.
Body Material Stainless Steel 316 Mirror finish
Temperature Range -25 / 105C.
Enclosure Protection IP69K IP67
Shock Resistance IEC 68-2-27 11ms 30g
Vibration Resistance IEC 68-2-6 10-55 Hz. 1mm
Cable Type PVC 6 or 8 core 6mm O.D.
Mounting Bolts 2 x M4 Tightening torque 1.0 Nm
Mounting Position Any

Sales Number	Type	Cable Length	Circuits	NC Duty
138017	Hygiemag CMR	2M	2NC	Medium 1A
138018	Hygiemag CMR	5M	2NC	Medium 1A
138019	Hygiemag CMR	10M	2NC	Medium 1A
138020	Hygiemag CMR	QC-M12	2NC	Medium 1A
138021	Hygiemag CMR	2M	2NC 1NO	Medium 1A
138022	Hygiemag CMR	5M	2NC 1NO	Medium 1A
138023	Hygiemag CMR	10M	2NC 1NO	Medium 1A
138024	Hygiemag CMR	QC-M12	2NC 1NO	Medium 1A
138025	Hygiemag CMR	2M	1NC	Heavy 2A
138026	Hygiemag CMR	5M	1NC	Heavy 2A
138027	Hygiemag CMR	10M	1NC	Heavy 2A
138028	Hygiemag CMR	QC-M12	1NC	Heavy 2A
138029	Hygiemag CMR	2M	1NC 1NO	Heavy 2A
138030	Hygiemag CMR	5M	1NC 1NO	Heavy 2A
138031	Hygiemag CMR	10M	1NC 1NO	Heavy 2A
138032	Hygiemag CMR	QC-M12	1NC 1NO	Heavy 2A