

HYGIEMAG – Magnetic Non Contact – Type CMR-F



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

Switching Tolerance up to 14mm IP69K No Food Trap Housing – Rear Mounting Holes

Temperatures up to 105C. Stainless Steel 316 housing

New

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

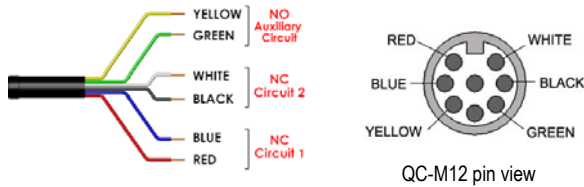
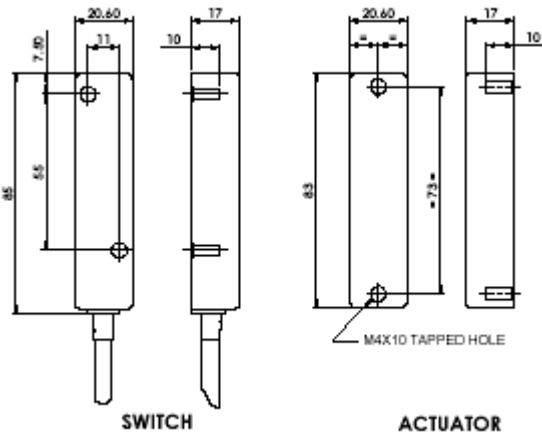
Suitable for CIP and SIP cleaning - mounting holes are at the rear – no food traps

Industry standard fixings – can be high pressure hosed at high temperature – IP69K

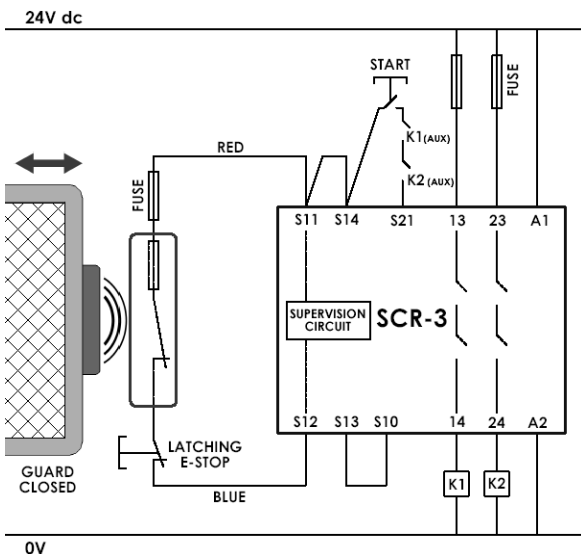
Wide 14mm sensing high tolerance to misalignment.

High switching capability – up to 2A.

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



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 |
| 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 2.0 A. (F) External 1.6A (F) (User)
- 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, Sar 22mm Open (Target to target)
 - 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
135017	Hygiemag CMR-F	2M	2NC	Medium 1A
135018	Hygiemag CMR-F	5M	2NC	Medium 1A
135019	Hygiemag CMR-F	10M	2NC	Medium 1A
135020	Hygiemag CMR-F	QC-M12	2NC	Medium 1A
135021	Hygiemag CMR-F	2M	2NC 1NO	Medium 1A
135022	Hygiemag CMR-F	5M	2NC 1NO	Medium 1A
135023	Hygiemag CMR-F	10M	2NC 1NO	Medium 1A
135024	Hygiemag CMR-F	QC-M12	2NC 1NO	Medium 1A
135025	Hygiemag CMR-F	2M	1NC	Heavy 2A
135026	Hygiemag CMR-F	5M	1NC	Heavy 2A
135027	Hygiemag CMR-F	10M	1NC	Heavy 2A
135028	Hygiemag CMR-F	QC-M12	1NC	Heavy 2A
135029	Hygiemag CMR-F	2M	1NC 1NO	Heavy 2A
135030	Hygiemag CMR-F	5M	1NC 1NO	Heavy 2A
135031	Hygiemag CMR-F	10M	1NC 1NO	Heavy 2A
135032	Hygiemag CMR-F	QC-M12	1NC 1NO	Heavy 2A