Magnetically Operated: CMR (HYGIEMAG)

FEATURES:

Specifically designed for Food Processing applications:

- Stainless Steel 316 Mirror Polished finish (Ra4).

Suitable for CIP and SIP cleaning:

- Food Splash Zones EHEDG guidelines.

Slim 20mm wide housing - can be fitted into narrow channels easily. Wide sensing at 12mm with high tolerance to misalignment.

Can be high pressure hosed at high temperature.

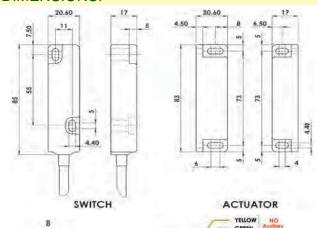
Can be high pressure hosed at high temp

High switching capability - up to 2.0A.

Up to: PLe ISO13849-1.

Quick Connect versions available.

DIMENSIONS:



Quick Connect QC M12 8 Way Male Plug Pin view from Switch	Standard Lead Colour	Circuit (Actuator Present)	
4	Yellow	NO	
6	Green	NO	
7	Black	NC2	
1	White	NC2	
2	Red	NC1	
3	Blue	NC1	

Standards:

ISO14119 EN60947-5-3 EN60204-1 ISO13849-1 EN62061 UL508

Safety Classification and Reliability Data: Mechanical Reliability B10d

ISO13849-1 Safety Data – Annual Usage 3.3 x 10⁶ operations at 100mA load
Up to PLe depending upon system architecture

8 cycles per hour/24 hours per day/365 days

Technical Specification:

Heavy Duty Safety Channel 1 NC Safety Channel 2 NC Safety Channel 3 NO Fuse Medium Duty Safety Channel 1 NC

Medium Duty Safety Channel 1 NC Safety Channel 2 NC Safety Channel 3 NO Fuse

Contact Release Time
Initial Contact Resistance
Minimum Switched Current
Dielectric Withstand
Insulation Resistance
Recommended Setting Gap
Switching Distance
(Target to Target)
Tolerance to Misalignment
Switching Frequency

Body Material
Operating Temperature
Enclosure Protection
Shock Resistance
Vibration Resistance
Cable Type

Approach Speed

Voltage Free: 250Vac 2.0A Max. Rating Voltage Free: 250Vac 2.0A Max. Rating Voltage Free: 24Vdc 0.2A Max. Rating Internal 2.0A (F) External 1.6A (F) (User) Voltage Free: 250Vac 1.0A Max. Rating Voltage Free: 250Vac 1.0A Max. Rating Voltage Free: 24Vdc 0.2A Max. Rating Internal 1.0A (F) External 0.8A (F) (User)

<2ms <500 milliohm 10Vdc 1mA 250Vac 100 Mohms 5mm Sao 8mm Close

MTTFd 470 years

Sar 22mm Open
5mm in any direction from 5mm setting gap

1.0Hz maximum 200mm/min to 1000mm/sec

Stainless Steel 316 mirror polished finish to Ra4 -25C +105C (CIP SIP cleaning) IP69K (QC versions IP67 for connector) IEC68-2-27 11ms 30q

tion Resistance IEC68-2-6 10-55Hz 1mm

Cable Type PVC 6 core 6mm OD Conductors 0.25mm²

Mounting Bolts 2xM4 Tightening torque 1.0Nm

For all IDEM switches the normally closed (NC) circuits are closed when the guard is closed and the actuator is present.

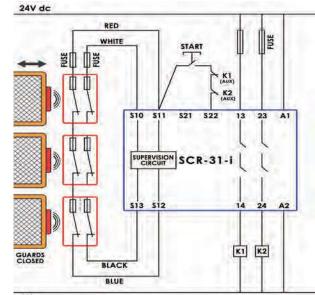
Stainless Steel 316 Housing mirror polished (Ra4). Magnetic Actuation - Power Series 230Vac/24Vdc 2.0A. Switching Tolerance up to 12mm.

Will operate with most Safety Relays.



CONNECTION EXAMPLE: Magnetic Switches

Three switches connected in series to an SCR-21-i or SCR-31-i to give Dual Channel guard monitoring with Monitored Manual Start and Contactor Feedback check.



OV				
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

