MAGNETIC NON CONTACT SAFETY INTERLOCK SWITCHES

HYGIEMAG - Magnetic Non Contact Type: CMR-F

FEATURES:

Specifically designed for Food Processing applications -Stainless Steel 316 Mirror Polished finish (Ra4)

Suitable for CIP SIP cleaning, mounting holes are at the rear - no food traps Suitable for Food Contact Zones - EHEDG Guidelines

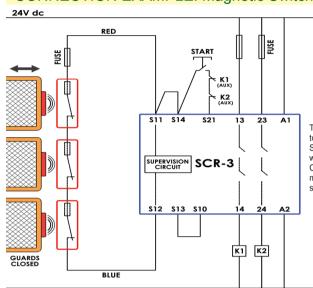
Industry standard fixings - can be high pressure hosed at high temperature Wide sensing at 12mm with high tolerance to misalignment

Can be high pressure hosed at high temperature

High switching capability - up to 2.0A

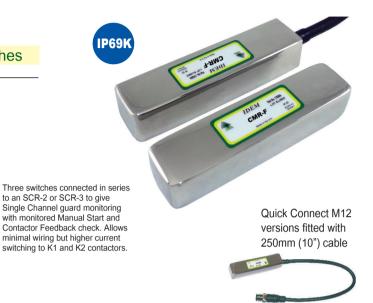
Up to: PLe ISO13849-1

CONNECTION EXAMPLE: Magnetic Switches



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

No Food Traps - Rear Mounting Holes Will operate with most Safety Relays



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Quick Connect QC Standard Circuit M12 8 Way Male Plug Lead (Actuator Present) Yellow NO Green NO Black NC2 NC2 NC1 NC1

Standards:

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

Safety Classification and Reliability Data:

Mechanical Reliability B10d ISO13849-1 Safety Data - Annual Usage

Heavy Duty Safety Channel 1 NC

Safety Channel 2 NC Safety Channel 3 NO Fuse

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

Approach Speed **Body Material** Operating Temperature Enclosure Protection Shock Resistance Vibration Resistance Cable Type

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 MTTFd 470 years

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 24Vdc 0.2A Max. Rating Voltage Free: External 0.8A (F) (User)

Internal 1.0A (F) <2ms <500 milliohm 10Vdc 1mA 250Vac 100 Mohms 5mm 8mm Close

Sar 22mm Open 5mm in any direction from 5mm setting gap 1.0Hz maximum

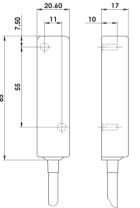
200mm/min to 1000mm/sec Stainless Steel 316 mirror polished finish to Ra4 -25C +105C (CIP SIP cleaning) IP69K (NEMA PW12) IP67 (NEMA 6) IEC68-2-27 11ms

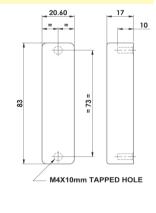
IEC68-2-6 10-55Hz PVC 6 core 6mm OD Conductors 0.25mm² 2xM4 Tightening torque 1.0Nm

Mounting Bolts Mounting Position

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

DIMENSIONS:





SWITCH

ACTUATOR

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

