HYGIEMAG - Magnetic Non Contact Type: CMR

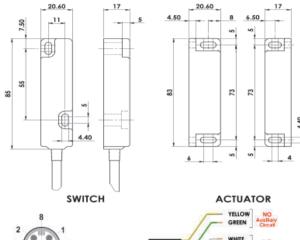
FEATURES:

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 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 EN60947-5-1

| | | EN60204-1 |
|-----------------------|---|-------------------------------|
| Safety Classification | and Reliability Data: | |
| Mech | 3.3 x 10 ⁶ ope | |
| | ISO13849-1 | Up to PLe de |
| | EN62061 | Up to SIL3 d |
| Safety | Data – Annual Usage | 8 cycles per |
| | PFHd | 2.52 x 10⁻ ⁸ |
| P | roof Test Interval (Life) | 47 years |
| | MTTFd | 470 years |
| Heavy Duty | Safety Channel 1 NC | Voltage Free |
| | Safety Channel 2 NC | Voltage Free |
| | Safety Channel 3 NO | Voltage Free |
| Mark and Date | Fuse | Internal 2.0A |
| Medium Duty | Safety Channel 1 NC | Voltage Free |
| | Safety Channel 2 NC | Voltage Free |
| | Safety Channel 3 NO | Voltage Free Internal 1.0A |
| | Fuse Contact Release Time | <2ms |
| | ial Contact Resistance | <500 milliohr |
| | num Switched Current | 10Vdc 1mA |
| IVIIIIII | Dielectric Withstand | 250Vac |
| | Insulation Resistance | 100 Mohms |
| Reco | 5mm | |
| 1000 | mmended Setting Gap Switching Distance | Sao 10mm |
| | (Target to Target) | Sar 22mm |
| Tole | erance to Misalignment | 5mm in any |
| | Switching Frequency | 1.0Hz maxin |
| | Approach Speed | 200mm/min |
| | Body Material | Stainless Ste |
| C | Operating Temperature | -25C +1050 |
| | Enclosure Protection | IP69K (NEM |
| | Shock Resistance | IEC68-2-27 |
| | Vibration Resistance | IEC68-2-6 |
| | Cable Type | PVC 6 core |
| | Mounting Bolts | 2xM4 Tighte |

| EN60204-1 ISO13849-1 EN62061 UL508 |
|---|
| 3.3 x 10 ⁶ operations at 100mA load Up to PLe depending upon system architecture Up to SIL3 depending upon system architecture |
| 8 cycles per hour/24 hours per day/365 days 2.52×10^{-8} |
| 47 years 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 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 10mm Close |
| Sar 22mm Open |
| 5mm in any direction from 5mm setting gap |
| 1.0Hz maximum |

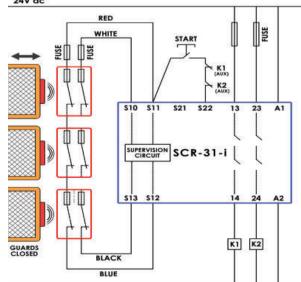
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Stainless Steel 316 Housing mirror polished (Ra4) Magnetic Actuation - Power Series 230Vac/24Vdc 2.0A Switching Tolerance up to 12mm Will operate with most Safety Relays

IP69K Quick Connect M12 versions fitted with 250mm (10") cable

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. 24V dc



0V

| 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 |
| | | | | |

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

Mounting Position Any