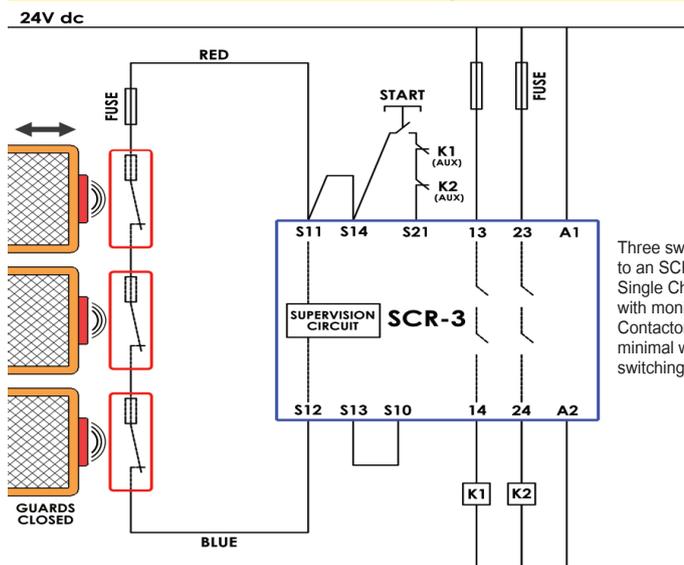


HYGIEMAG - Magnetic Non Contact Type: CMR-F

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



Three switches connected in series to an SCR-2 or SCR-3 to give Single Channel guard monitoring with monitored Manual Start and Contactor Feedback check. Allows minimal wiring but higher current switching to K1 and K2 contactors.

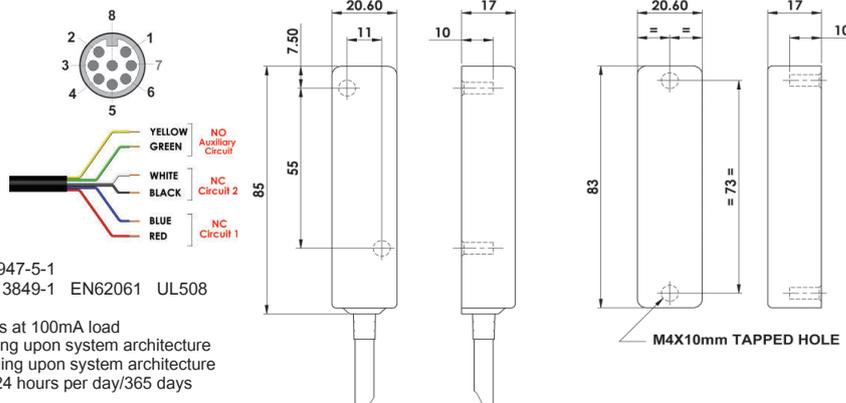
IP69K



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



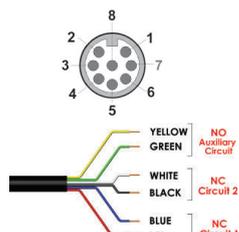
DIMENSIONS:



SWITCH

ACTUATOR

| 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 ISO13849-1 EN62061 UL508

Safety Classification and Reliability Data:

| | |
|---------------------------------------|---|
| Mechanical Reliability B10d | 3.3 x 10 ⁶ operations at 100mA load |
| ISO13849-1 | Up to PLe depending upon system architecture |
| EN62061 | Up to SIL3 depending upon system architecture |
| Safety Data – Annual Usage PFHD | 8 cycles per hour/24 hours per day/365 days |
| Proof Test Interval (Life) MTTFd | 2.52 x 10 ⁸ 47 years |
| Heavy Duty | 470 years |
| Safety Channel 1 NC | Voltage Free: 250Vac 2.0A Max. Rating |
| Safety Channel 2 NC | Voltage Free: 250Vac 2.0A Max. Rating |
| Safety Channel 3 NO | Voltage Free: 24Vdc 0.2A Max. Rating |
| Fuse | Internal 2.0A (F) External 1.6A (F) (User) |
| Medium Duty | 470 years |
| Safety Channel 1 NC | Voltage Free: 250Vac 1.0A Max. Rating |
| Safety Channel 2 NC | Voltage Free: 250Vac 1.0A Max. Rating |
| Safety Channel 3 NO | Voltage Free: 24Vdc 0.2A Max. Rating |
| Fuse | Internal 1.0A (F) External 0.8A (F) (User) |
| Contact Release Time | <2ms |
| Initial Contact Resistance | <500 milliohm |
| Minimum Switched Current | 10Vdc 1mA |
| Dielectric Withstand | 250Vac |
| Insulation Resistance | 100 Mohms |
| Recommended Setting Gap | 5mm |
| Switching Distance (Target to Target) | Sao 10mm Close Sar 22mm Open |
| Tolerance to Misalignment | 5mm in any direction from 5mm setting gap |
| Switching Frequency | 1.0Hz maximum |
| Approach Speed | 200mm/min to 1000mm/sec |
| Body Material | Stainless Steel 316 mirror polished finish to Ra4 |
| Operating Temperature | -25C +105C (CIP SIP cleaning) |
| Enclosure Protection | IP69K (NEMA PW12) IP67 (NEMA 6) |
| Shock Resistance | IEC68-2-27 11ms 30g |
| Vibration Resistance | IEC68-2-6 10-55Hz 1mm |
| Cable Type | PVC 6 core 6mm OD Conductors 0.25mm ² |
| Mounting Bolts | 2xM4 Tightening torque 1.0Nm |
| Mounting Position | Any |

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



| | | |
|--------|----------------|-----------------------|
| 140101 | Female QC Lead | M12 Female 5m. 8 way |
| 140102 | Female QC Lead | M12 Female 10m. 8 way |



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