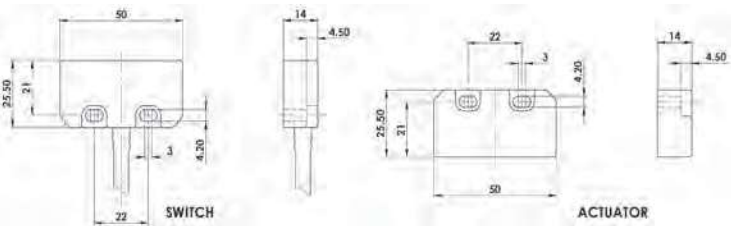


Magnetically Operated: SMR (HYGIEMAG)

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.
Universal housing - 22mm fixing hole centre with a 50mm wide body.
Wide sensing at 12mm with high tolerance to misalignment.
Can be high pressure hosed at high temperature.
High switching capability - up to 1.0A.
Up to: PLe ISO13849-1.
2NC 1NO circuits.
Quick Connect versions available.

DIMENSIONS:



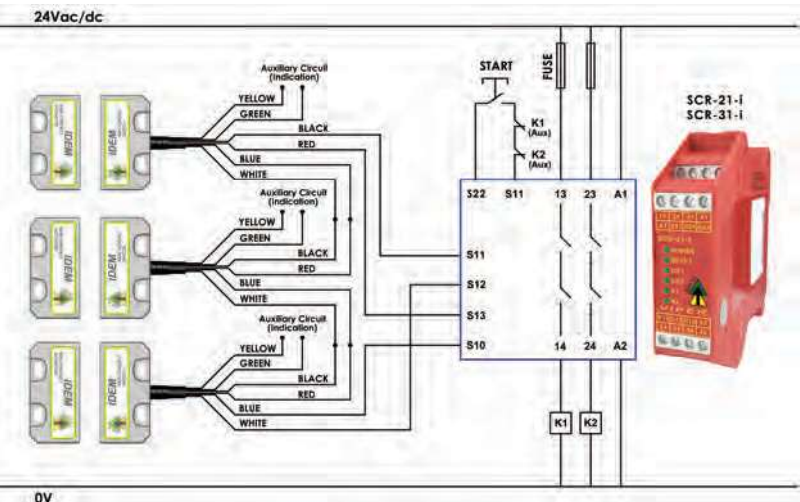
Stainless Steel 316 Housing mirror polished (Ra4).
Magnetic Actuation - Power Series 230Vac/24Vdc 1.0A.
Switching Tolerance up to 12mm.
Will operate with most Safety Relays.

IP69K

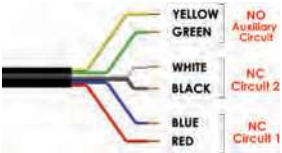
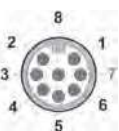


Quick Connect M12 versions fitted with 250mm (10") cable.

CONNECTION EXAMPLE: Magnetic Switches



Three SMR switches connected to an SCR-21-i or SCR-31-i to give dual channel guard monitoring with monitored manual start and contactor feedback check. Auxiliary circuits provide remote signalling from each switch.



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

Safety Classification and Reliability Data:

Mechanical Reliability B10d 3.3 x 10⁶ operations at 100mA load
ISO13849-1 Up to PLe depending upon system architecture
Safety Data – Annual Usage 8 cycles per hour/24 hours per day/365 days
MTTFd 470 years

Technical Specification:

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 Sao 8mm Close Sar 22mm Open
(Target to Target)
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 (QC versions IP67 for connector)
Shock Resistance IEC68-2-27 11ms 30g
Vibration Resistance IEC68-2-6 10-55Hz 1mm
Cable Type PVC 6 core 6mm OD Conductors 0.25mm²
Mounting Bolts 2xM4 Tightening torque 1.0Nm
Mounting Position Any

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

SALES NUMBER	TYPE	CABLE LENGTH	CIRCUITS
139009	Hygiemag SMR	2M	2NC
139010	Hygiemag SMR	5M	2NC
139011	Hygiemag SMR	10M	2NC
139012	Hygiemag SMR	QC-M12	2NC
139013	Hygiemag SMR	2M	2NC 1NO
139014	Hygiemag SMR	5M	2NC 1NO
139015	Hygiemag SMR	10M	2NC 1NO
139016	Hygiemag SMR	QC-M12	2NC 1NO
139017	Hygiemag SMR	2M	1NC
139018	Hygiemag SMR	5M	1NC
139019	Hygiemag SMR	10M	1NC
139020	Hygiemag SMR	QC-M12	1NC
139021	Hygiemag SMR	2M	1NC 1NO
139022	Hygiemag SMR	5M	1NC 1NO
139023	Hygiemag SMR	10M	1NC 1NO
139024	Hygiemag SMR	QC-M12	1NC 1NO



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

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