

Magnetically Operated: WMR (HYGIEMAG)

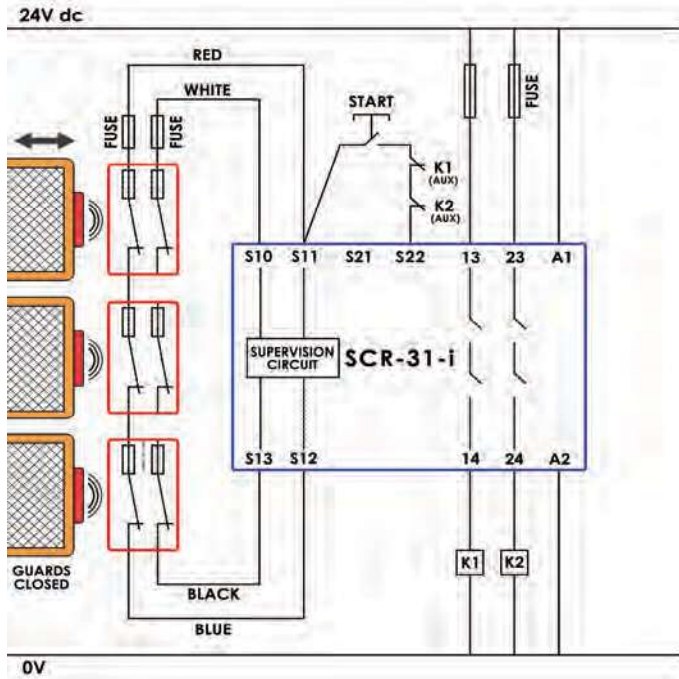
FEATURES:

Specifically designed for Food Processing applications:
 - Stainless Steel 316 Mirror Polished finish (Ra4).
 Suitable for CIP and SIP cleaning:
 - Food Splash Zones EHEDG guidelines.
 Industry standard fixings.
 Wide sensing at 12mm with high tolerance to misalignment.
 Can be high pressure hosed at high temperature IP69K.
 Long life high power switching capability - Heavy Duty 2.0A.
 Up to: PLe.
 Quick Connect versions available.

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

CONNECTION EXAMPLE: Magnetic Switches



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

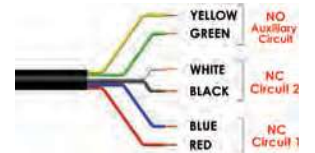
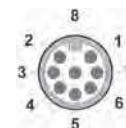
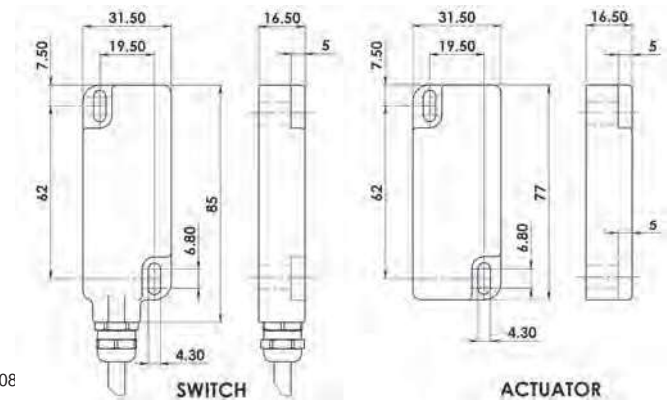
Technical Specification:

Heavy Duty 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)
 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
 (Target to Target) 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 (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 M12 versions fitted with 250mm (10") cable.

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

SALES NUMBER	TYPE	CABLE LENGTH	CIRCUITS
136001	Hygiemag WMR	2M	2NC
136002	Hygiemag WMR	5M	2NC
136003	Hygiemag WMR	10M	2NC
136004	Hygiemag WMR	QC-M12	2NC
136005	Hygiemag WMR	2M	2NC 1NO
136006	Hygiemag WMR	5M	2NC 1NO
136007	Hygiemag WMR	10M	2NC 1NO
136008	Hygiemag WMR	QC-M12	2NC 1NO
136009	Hygiemag WMR	2M	1NC 1NO
136010	Hygiemag WMR	5M	1NC 1NO
136011	Hygiemag WMR	10M	1NC 1NO
136012	Hygiemag WMR	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.