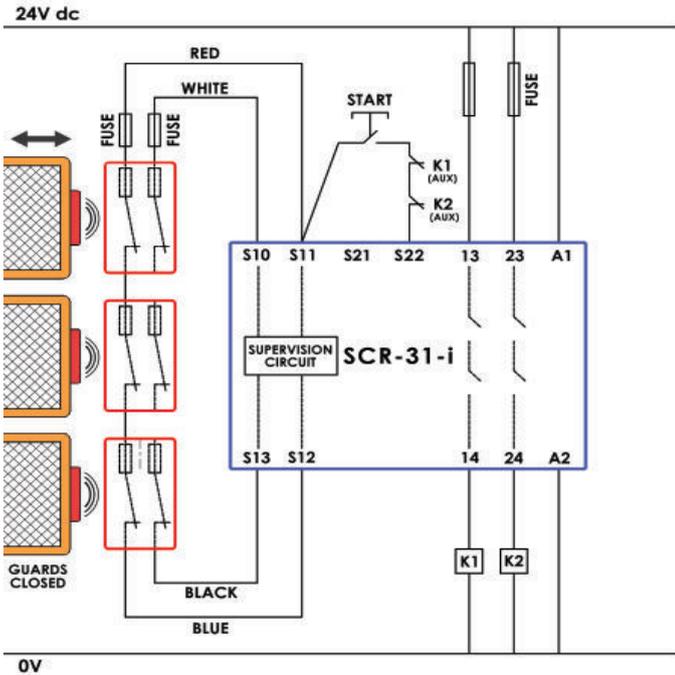


# HYGIEMAG - Magnetic Non Contact Type: WMR

## 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

## CONNECTION EXAMPLE: Magnetic Switches



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

### Safety Classification and Reliability Data:

Mechanical Reliability B10d	3.3 x 10 <sup>8</sup> 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	8 cycles per hour/24 hours per day/365 days
PFHd	2.52 x 10 <sup>-8</sup>
Proof Test Interval (Life)	47 years
MTTFd	470 years
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 10mm 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 (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 <sup>2</sup>
Mounting Bolts	2xM4 Tightening torque 1.0Nm
Mounting Position	Any

	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.

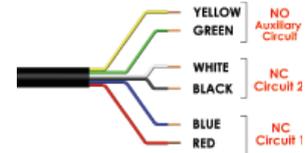
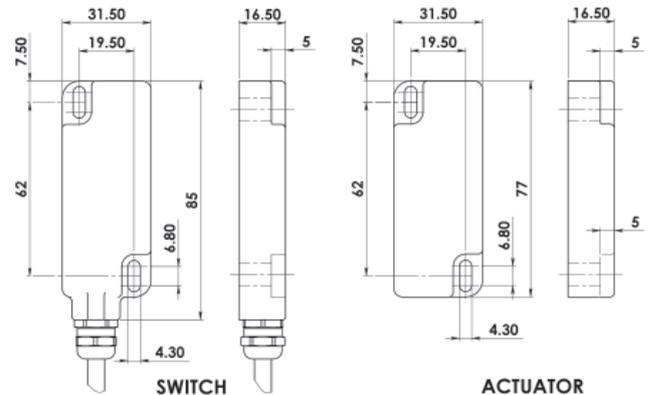


**Stainless Steel 316 Housing mirror polished (Ra4)**  
**Magnetic Actuation - Power Series 230Vac/24Vdc 2.0A**  
**Switching Tolerance up to 12mm**  
**Will operate with most Safety Relays**



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