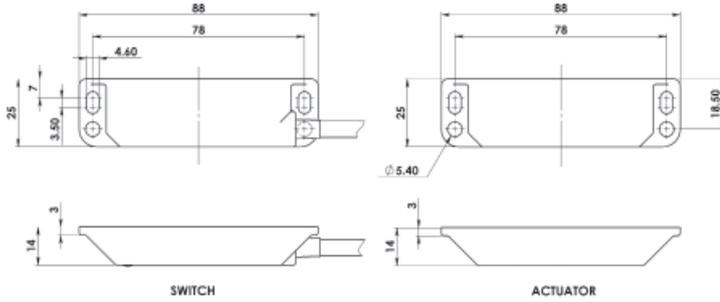


# HYGIEMAG - Magnetic Non Contact Type: LMR

## FEATURES:

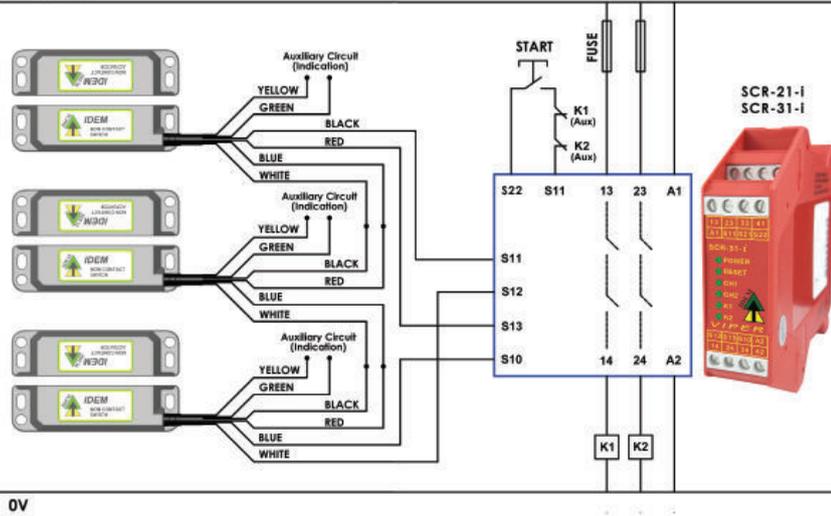
Specifically designed for Food Processing applications -  
 Stainless Steel 316 Mirror Polished finish (Ra4)  
 Suitable for CIP and SIP cleaning -  
 Food Splash Zones EHEDG guidelines - IP69K  
 Wide sensing at 12mm with high tolerance to misalignment  
 Narrow fitting enables flush mounting  
 Can be high pressure hosed at high temperature  
 Long life high power switching capability - up to 1.0A  
 Up to: PLe ISO13849-1  
 2NC 1NO circuits Quick Connect versions available

## DIMENSIONS:



## CONNECTION EXAMPLE: Magnetic Switches

24Vac/dc



0V

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

### Safety Classification and Reliability Data:

Mechanical Reliability B10d 3.3 x 10<sup>6</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  
 Medium Duty 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 10mm 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 (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>  
 Cable Type PVC 6 core 6mm OD Conductors 0.25mm<sup>2</sup>  
 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.



**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**

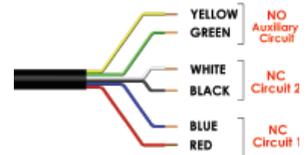
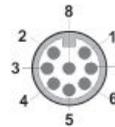


IP69K

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



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. Optional auxiliary circuits provide for remote signalling from each switch.



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
133009	Hygiemag LMR	2M	2NC
133010	Hygiemag LMR	5M	2NC
133011	Hygiemag LMR	10M	2NC
133012	Hygiemag LMR	QC-M12	2NC
133013	Hygiemag LMR	2M	2NC 1NO
133014	Hygiemag LMR	5M	2NC 1NO
133015	Hygiemag LMR	10M	2NC 1NO
133016	Hygiemag LMR	QC-M12	2NC 1NO



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