

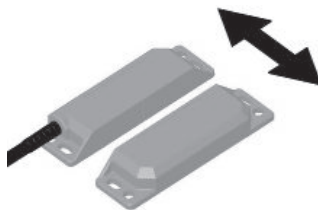
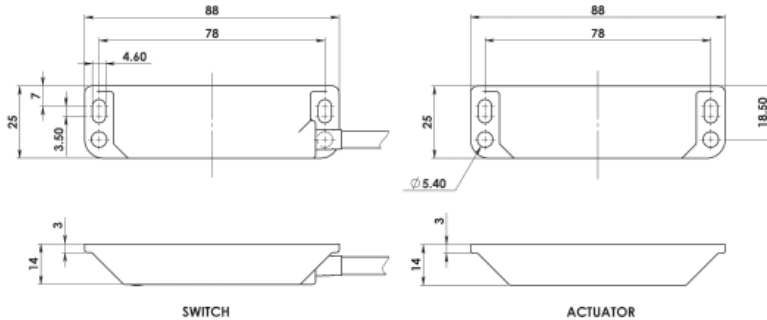
HYGIEMAG - Magnetic Non Contact: LMR (with Integral LED)

FEATURES:

- 2NC circuits for connection to safety relays to achieve up to: PLe ISO13849-1
- Integral LED indication of sensing position
- Choice of LED versions:
 - Green - ON when guard is closed
 - Red - ON when guard is open

- Stainless Steel 316 housing - IP69K suitable for high pressure hosing
- Popular European style narrow fitting for flush mounting
- Wide 10mm sensing with high tolerance to misalignment
- Long life high power switching capability up to 1A
- M12 Quick Connect versions available

DIMENSIONS:



Recommended operating direction for optimum performance

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

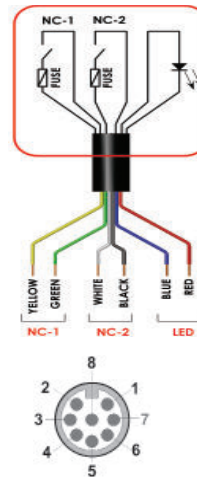
Safety Classification and Reliability Data:

- Safety Channels NC1 and NC2
- Fuse (NC Circuits) Voltage free: 250Vac 1.0A Max. Fuse externally 0.8A (F)
- 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
- LED Supply Voltage 24Vdc +/-10%
- NC Switching Distance Sao 8mm Close Sar 22mm Open (Target to Target)
- LED (Green) Typical 8mm ON 15mm OFF
- LED (Red) Typical 8mm OFF 15mm ON
- 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 Ra4
- Operating Temperature -25C +105C (CIP SIP cleaning)
- Enclosure Protection IP67 IP69K
- Shock Resistance IEC68-2-27 11ms 30g
- Vibration Resistance IEC68-2-6 10-55Hz 1mm
- Mechanical Life Expectancy 10,000,000 switching operations
- Electrical Life Expectancy 1,000,000 switching operations
- De-rating Safety Factor 2
- Tested to 2,000,000 cycles at 24V 0.2A
- Cable Type PVC 6 core 6mm OD Conductors 0.25mm²
- Mounting Bolts 2xM4 Tightening torque 1.0Nm
- Mounting Position Any

Integral LED (options available)
Magnetic Actuation - Power Series
Switching Tolerance up to 10mm
Will operate with most Safety Relays



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



Note: The LED does not indicate the status of the NC Safety Contacts, but indicates that the actuator is allowed to give optimum performance.

Quick Connect QC M12 8 Way Male Plug Pin view from Switch	Standard Lead Colour	Circuit (Actuator Present)
4	Yellow	NC2
6	Green	NC2
7	Black	NC1
1	White	NC1
2	Red	Supply + 24Vdc
3	Blue	Supply 0Vdc

LED COLOUR AND STATUS	SALES NUMBER	TYPE	CABLE LENGTH	OUTPUT CIRCUITS
LED GREEN (Illuminated when the guard is closed)	133120	Hygiemag LMR (with Integral LED)	2M	2NC
	133121	Hygiemag LMR (with Integral LED)	5M	2NC
	133122	Hygiemag LMR (with Integral LED)	10M	2NC
	133123	Hygiemag LMR (with Integral LED)	QC-M12	2NC
LED RED (Illuminated when the guard is open)	133124	Hygiemag LMR (with Integral LED)	2M	2NC
	133125	Hygiemag LMR (with Integral LED)	5M	2NC
	133126	Hygiemag LMR (with Integral LED)	10M	2NC
	133127	Hygiemag LMR (with Integral LED)	QC-M12	2NC

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