

# EUROMAG - Magnetic Non Contact: LPR (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

Popular European fitting suitable for all industry applications

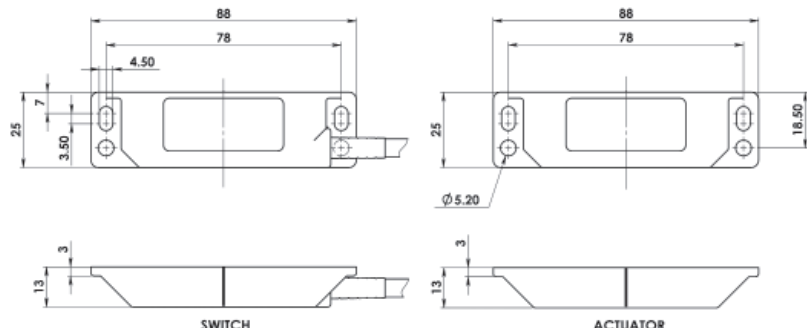
Narrow fitting to allow for flush mounting

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 EN60947-5-1  
EN60204-1 ISO13849-1 EN62061 UL508

### Safety Classification and Reliability Data:

Safety Channels NC1 and NC2	Voltage free: 250Vac 1.0A Max.
Fuse (NC Circuits)	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
(Target to Target)	Sar 22mm Open
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	UL approved polyester
Operating Temperature	-25C +80C
Enclosure Protection	IP67
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 0.25mm <sup>2</sup>
Mounting Bolts	2xM4 Tightening torque 1.0Nm
Mounting Position	Any

Integral LED (options available)

Magnetic Actuation - Power Series

Switching Tolerance up to 10mm

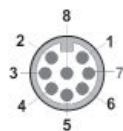
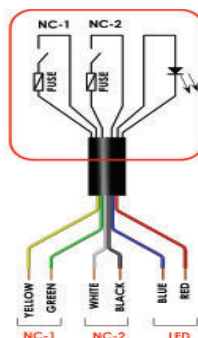
Will operate with most Safety Relays



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  
aligned 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

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

LED COLOUR AND STATUS	SALES NUMBER	TYPE	CABLE LENGTH	OUTPUT CIRCUITS
<b>LED GREEN</b> (Illuminated when the guard is closed)	110101	Euromag LPR (with Integral LED)	2M	2NC
	110102	Euromag LPR (with Integral LED)	5M	2NC
	110103	Euromag LPR (with Integral LED)	10M	2NC
	110104	Euromag LPR (with Integral LED)	QC-M12	2NC
<b>LED RED</b> (Illuminated when the guard is open)	110105	Euromag LPR (with Integral LED)	2M	2NC
	110106	Euromag LPR (with Integral LED)	5M	2NC
	110107	Euromag LPR (with Integral LED)	10M	2NC
	110108	Euromag LPR (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.

110300	Plastic 8mm Spacers (2) for use when mounting on Ferrous Materials	1 x Switch 1 x Actuator
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