

# EUROCODE - Coded Non Contact - Type: LPC

## Coded Magnetic Actuation

Switching Tolerance up to 14mm



Popular European fitting suitable for all industry applications.

Can be high pressure hosed at high temperature - IP69K

Wide 14mm sensing - high tolerance to misalignment

LED indication

Up to: PLe ISO 13849-1 SIL 3 EN 62061 Cat 4 EN 954-1

2NC 1NO circuits - High switching life - no moving parts

Quick connect versions.

Magnet Holding versions for use with small guards

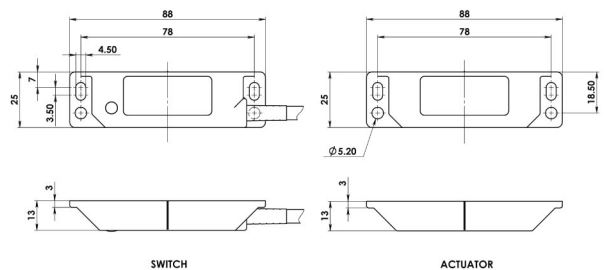
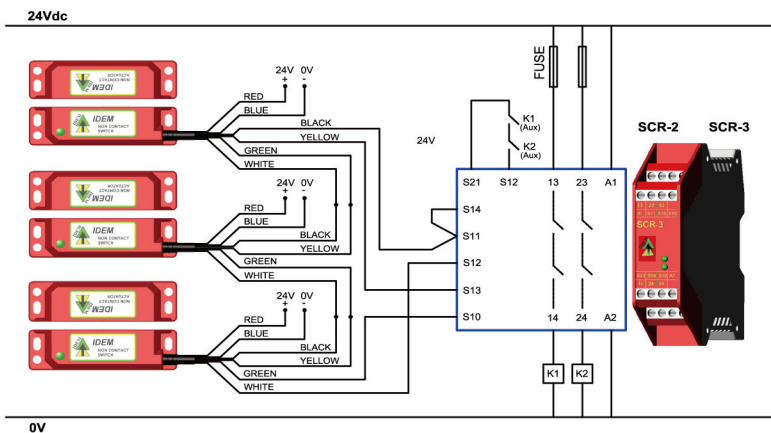
**Specified to 80C but designed to work up to 100C**  
**Will operate with most EN 954-1 Cat.4 Safety Relays**



## Connection example - coded switches

Three switches connected in series to an SCR-2 or SCR-3 to give

Dual Channel monitoring with auto start and contactor feedback check.



Standards EN1088 IEC 60947-5-3 EN 60204-1  
ISO 13849-1 EN62061 EN 954-1 UL508

## Safety Classification and Reliability Data:

Switching Reliability	3.3 x 10 <sup>6</sup> operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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
Safety Channel 1 NC	24V.d.c 0.2 A Max. Rating
Safety Channel 2 NC	24V.d.c 0.2 A Max. Rating
Safety Channel 3 NO	24V.d.c 0.2 A Max. Rating
Minimum switched current	10V. dc 1mA
Dielectric withstand	250V.ac
Insulation Resistance	100 Mohms
Recommended setting gap	5mm
Switching Distance:	Sao 10mm Close
(Target to target)	Sar 20mm Open
Tolerance to misalignment	5mm in any direction from 5mm setting gap
Switching frequency	1.0 Hz maximum
Approach speed	200mm/m. to 1000mm/s.
Body Material	UL approved polyester
Temperature Range	-25 +80C.
Enclosure Protection	IP69K IP67
Shock Resistance	IEC 68-2-27 11ms 30g
Vibration Resistance	IEC 68-2-6 10-55 Hz. 1mm
Cable Type	PVC 6 or 8 core 6mm O.D.
Mounting Bolts	2 x M4 Tightening torque 1.0 Nm
Mounting Position	Any

Magnetic Holding versions



At 1mm setting gap: 10N.  
At 5mm setting gap: 5N.

Sales Number	Type	Cable Length	Circuits
110001	Eurocode LPC	2M	2NC
110002	Eurocode LPC	5M	2NC
110003	Eurocode LPC	10M	2NC
110004	Eurocode LPC	QC-M12	2NC
110005	Eurocode LPC	2M	2NC 1NO
110006	Eurocode LPC	5M	2NC 1NO
110007	Eurocode LPC	10M	2NC 1NO
110008	Eurocode LPC	QC-M12	2NC 1NO
110070	Eurocode LPC	2M	3NC
110071	Eurocode LPC	5M	3NC
110072	Eurocode LPC	10M	3NC
110073	Eurocode LPC	QC-M12	3NC

For Magnetic Holding Versions add 10N to Part Number

Example:

LPC 2NC 1NO 5m. with Magnetic Hold Part 110006-10N

Note: 2NC 1NO versions have 2NC Safety and 1NO Auxiliary Circuits  
3NC versions have 2NC Safety and 1NC Auxiliary Circuits

**Available without LED if required**

Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	200mA Max. 24Vdc
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	200mA Max. 24Vdc
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	200mA Max. 24Vdc
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	

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

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present