# **IDEMAG - Magnetic Non Contact - Type: SPR**

# **Magnetic Actuation - Power series**

#### **Medium Duty versions** 230V.ac / 24V.dc 1A.

### Switching Tolerance up to 12mm

Universal fitting - established 22mm fixing footprint suitable for most general applications.

Can be high pressure hosed at high temperature - IP69K.

Withstands environments where high humidity or hose down is required.

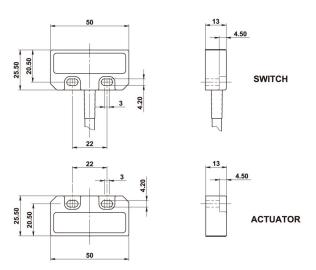
Durable polyester housing.

Wide 12mm sensing - high tolerance to misalignment.

Long life high switching capability to 1A.

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

2NC 1NO circuits Quick connect versions



Standards

Safety Classification and Reliability Data:

Mechanical Reliability B10d EN 954-1 ISO 13849-1 EN 62061

Safety Data - Annual Usage PFHd

Proof Test Interval (Life) MTTFd

Safety Channel 1 NC Safety Channel 2 NC Safety Channel 3 NO Fuse

Contact release time Initial contact resistance Minimum switched current

Dielectric withstand Insulation Resistance Recommended setting gap Switching Distance: (Target to target)

Tolerance to misalignment Switching frequency Approach speed Body Material

Temperature Range Enclosure Protection Shock Resistance

Vibration Resistance Cable Type Mounting Bolts Mounting Position EN1088 IEC 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508

3.3 x 106 operations at 100mA load up to Category 4 with Safety Relay up to PLe depending upon system architecture

up to SIL3 depending upon system architecture 8 cycles per hour / 24 hours per day / 365 days 2.52 x 10-8

47 years 470 years

Voltage free : 250V.ac 1.0 A Max. Rating Voltage free : 250V.ac 1.0 A Max. Rating Voltage free 24V.dc 0.2 A Max. Rating Internal 1.0 A. (F) External 0.8A (F) (User)

<2ms <500 milliohm 250V.ac 100 Mohms 5mm

Sao 10mm Close Sar 22mm Open

5mm in any direction from 5mm setting gap 1.0 Hz maximum

1000mm/s 200mm/m UL approved polyester

- 25 +80C. IP69K (NEMA PW12) IP67 (NEMA 6) IEC 68-2-27 11ms IEC 68-2-6 10-55 Hz. 1mm

PVC 6 core 6mm O.D. 2 x M4 Tightening torque 1.0 Nm

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



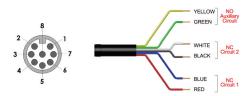




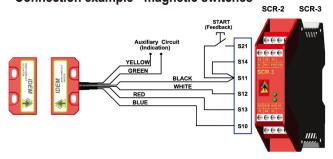
Specified to 80C but designed to work up to 100C. Will operate with most Safety Relays



Quick Connect (QC)		
	Standard Lead	Circuit
M12 8 Way Male Plug Pin view from switch	Colour	(Actuator Present)
Pin view irom switch		
4	Yellow	NO
6	Green	NO
7	Black	NC2
1	White	NC2
2	Red	NC1
3	Blue	NC1

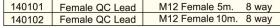


## Connection example - magnetic switches



Single switch connected to an SCR-2 or SCR-3 to give Dual Channel monitoring with Manual Start. Optional auxiliary circuit provides for remote signalling from switch.

Sales Number	Туре	Cable Length	Circuits
111009	Idemag SPR	2M	2NC
111010	Idemag SPR	5M	2NC
111011	Idemag SPR	10M	2NC
111012	Idemag SPR	QC-M12	2NC
111013	Idemag SPR	2M	2NC 1NO
111014	Idemag SPR	5M	2NC 1NO
111015	Idemag SPR	10M	2NC 1NO
111016	Idemag SPR	QC-M12	2NC 1NO



	Plastic 8mm Spacers for	
111300	use when mounted on	(1 X Switch 1 X Actuator)
	Ferrous Materials.	

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