

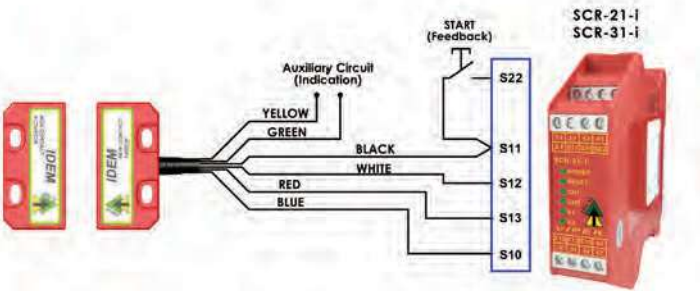
Magnetically Operated: SPR (IDEMAG)

FEATURES:

Universal fitting - established 22mm fixing footprint.
Suitable for most general industry applications.
Withstands environments where high humidity or hose down is required.
Wide sensing at 12mm and high tolerance to misalignment.
High specification polyester housing with integral back plate.
Long life high current switching capability up to 1A.
Up to: PLe ISO13849-1.
2NC 1NO circuits.
Quick Connect versions available.

Magnetic Actuation - Power Series.
Switching Tolerance up to 12mm.
Medium Duty versions 230Vac/24Vdc 1A.
Will operate with most Safety Relays.

CONNECTION EXAMPLE: Magnetic Switches



Single switch connected to an SCR-21-i or SCR-31-i to give Dual Channel guard monitoring with Manual Start. Optional auxiliary circuit provides for remote signalling from 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

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

Safety Classification and Reliability Data:
Mechanical Reliability B10d 3.3 x 10⁶ operations at 100mA load
ISO13849-1 Up to PLe depending upon system architecture
Safety Data – Annual Usage 8 cycles per hour/24 hours per day/365 days
MTTFd 470 years

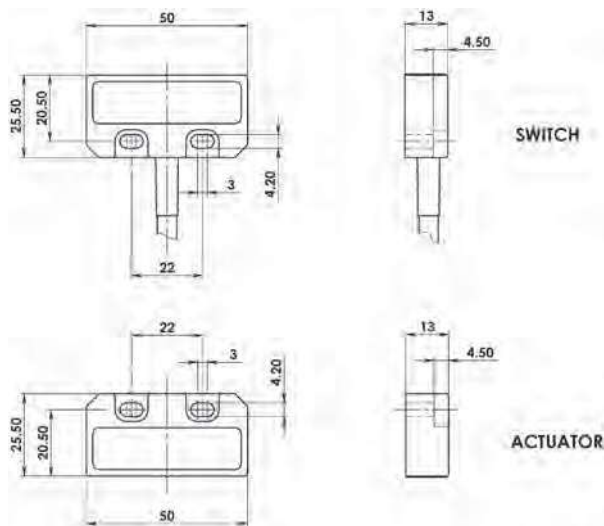
Technical Specification:
Safety Channel 1 NC Voltage Free: 250Vac 1.0A Max. Rating
Safety Channel 2 NC Voltage Free: 250Vac 1.0A Max. Rating
Safety Channel 3 NO Voltage Free: 24Vdc 0.2A Max. Rating
Fuse Internal 1.0A (F) External 0.8A (F) (User)
Contact Release Time <2ms
Initial Contact Resistance <500 milliohm
Minimum Switched Current 10Vdc 1mA
Dielectric Withstand 250Vac
Insulation Resistance 100 Mohms
Recommended Setting Gap 5mm
Switching Distance Sao 8mm Close
(Target to Target) Sar 22mm Open
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 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 0.25mm²
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.



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

DIMENSIONS:



SALES NUMBER	TYPE	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

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

111300	Plastic 8mm Spacers (2) for use when mounting on Ferrous Materials	1 x Switch 1 x Actuator
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