

IDEMAG - Magnetic Non Contact Type: SPR

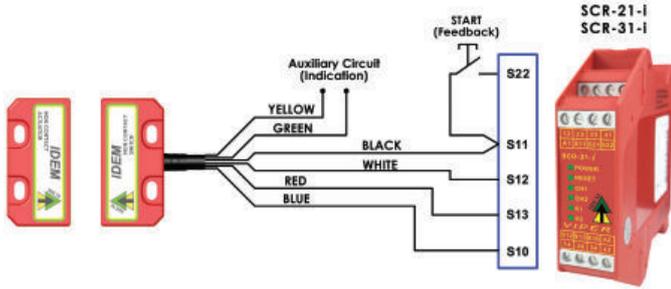
FEATURES:

- Universal fitting - established 22mm fixing footprint
- Suitable for most general industry applications
- Can be high pressure hosed at high temperature - IP69K
- 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

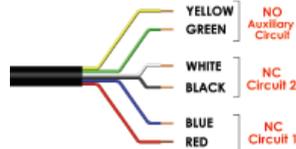
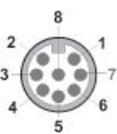


Magnetic Actuation - Power Series
Switching Tolerance up to 12mm
Medium Duty versions 230Vac/24Vdc 1A
Will operate with most Safety Relays

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 M12 versions fitted with 250mm (10") cable



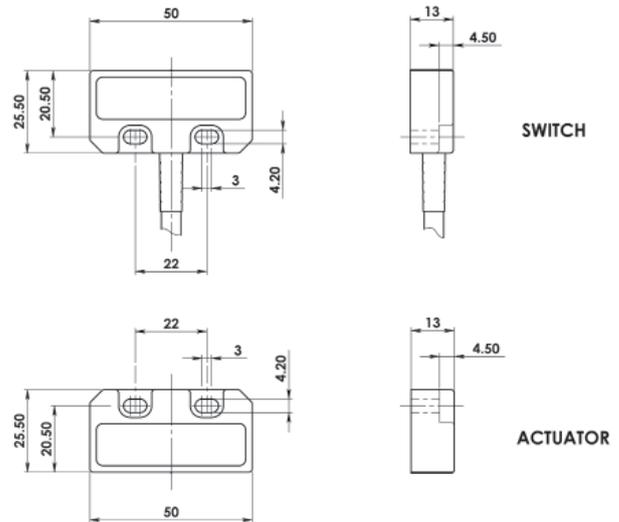
Quick Connect QC M12 8 Way Male Plug Pin view from Switch	Standard Lead Colour	Circuit (Actuator Present)
4	Yellow	NO
6	Green	NO
7	Black	NC2
1	White	NC2
2	Red	NC1
3	Blue	NC1

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

Safety Classification and Reliability Data:

Mechanical Reliability B10d	3.3 x 10 ⁶ operations at 100mA load
ISO13849-1	Up to PLe depending upon system architecture
EN62061	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 ⁻⁶
Proof Test Interval (Life)	47 years
MTTFd	470 years
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 (Target to Target)	Sao 10mm Close 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 0.25mm ²
Mounting Bolts	2xM4 Tightening torque 1.0Nm
Mounting Position	Any

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

For all IDEM switches the normally closed (NC) circuits are closed when the guard is closed and the actuator is present.

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