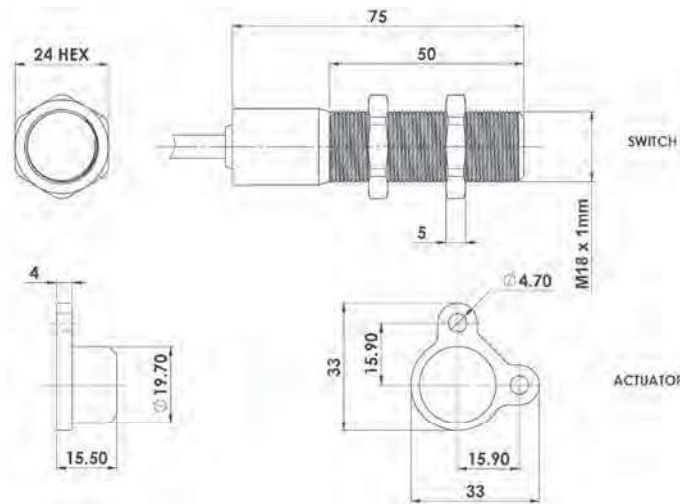


Magnetically Operated: BPR M18 (IDEMAG)

FEATURES:

M18 cylindrical fitting suitable for all industry applications.
Easy to install - M18 threaded body - easy to set.
Wide 10mm sensing.
Suitable for harsh environments of Food Processing and Packaging.
High specification red polyester housing.
Up to: PLe ISO13849-1.
2NC 1NO circuits.
Quick Connect versions available.

DIMENSIONS:



Magnetic Actuation.

Switching Tolerance up to 10mm.

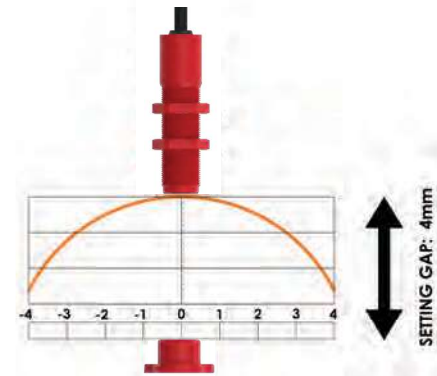
Will operate with most Safety Relays.

Quick Connect versions available.

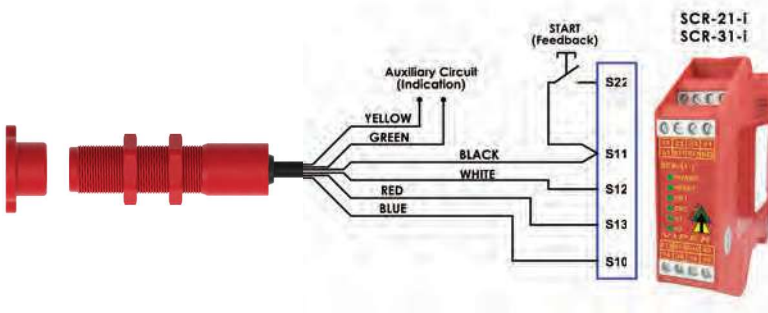


Quick Connect M12 versions fitted with 250mm (10") cable.

SETTING GAP:



CONNECTION EXAMPLE: Magnetic Switches



One switch connected to an SCR-2 or SCR-3 to give Dual Channel guard monitoring with Automatic Start.

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 0.5A Max. Rating
Safety Channel 2 NC Voltage Free: 250Vac 0.5A Max. Rating
Safety Channel 3 NO Voltage Free: 24Vdc 0.2A Max. Rating
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 20mm Open
Tolerance to Misalignment 4mm in any direction from 4mm 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 IP67
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 Position Any

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

SALES NUMBER	TYPE	CABLE LENGTH	CIRCUITS
415009	Idemag BPR Plastic	2M	2NC
415010	Idemag BPR Plastic	5M	2NC
415011	Idemag BPR Plastic	10M	2NC
415012	Idemag BPR Plastic	QC-M12	2NC
415013	Idemag BPR Plastic	2M	2NC 1NO
415014	Idemag BPR Plastic	5M	2NC 1NO
415015	Idemag BPR Plastic	10M	2NC 1NO
415016	Idemag BPR Plastic	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.