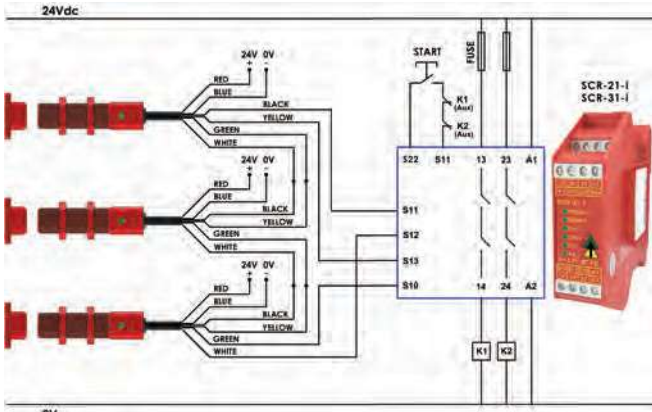


RFID Coded: BPF

FEATURES:

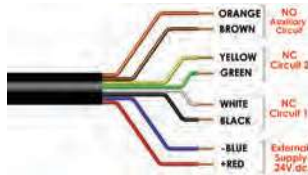
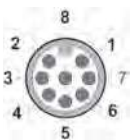
M18 cylindrical fitting suitable for all industry applications.
Easy to install - M18 threaded body - easy to set.
10mm typical switching distance.
Suitable for harsh environments of Food Processing and Packaging.
High specification red polyester housing.
For use in applications up to PLe/Cat4 (EN ISO 13849-1) and SIL3 (IEC 61508).
LED indication and Quick Connect versions available.
Can be high pressure hosed at high temperature due to IP69K rating.
2NC 1NO circuits - high switching life - no moving parts.

CONNECTION EXAMPLE



Three switches connected in series to an SCR-21-i or SCR-31-i to give Dual Channel monitoring with monitored Manual Start and Contactor Feedback Check

OPERATING DIRECTION:



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

SALES NUMBER	MASTER CODED (same code every switch)	CABLE LENGTH
413001	BPF-M-RFID	5M
413002	BPF-M-RFID	10M
413003	BPF-M-RFID	QC-M12
413200	Replacement Actuator Master Coded	

SALES NUMBER	UNIQUELY CODED (every switch unique activation)	CABLE LENGTH
413101	BPF-U-RFID	5M
413102	BPF-U-RFID	10M
413103	BPF-U-RFID	QC-M12

RFID Coded Actuation.

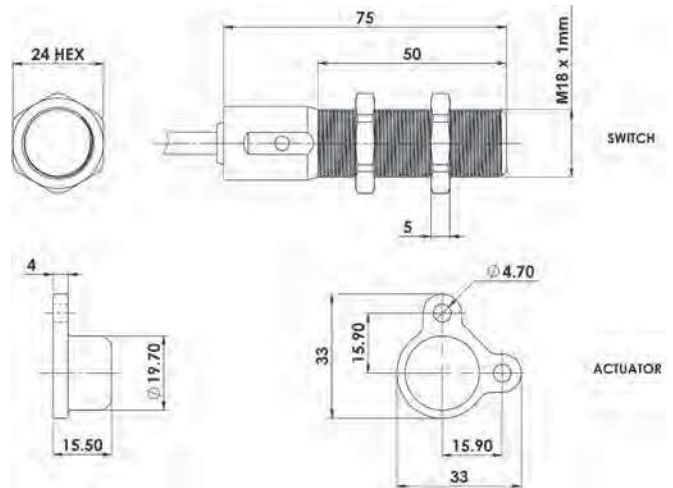
Typical switching distance 10mm.

Will operate with most Safety Relays.



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

DIMENSIONS:



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

Safety Classification and Reliability Data:

Minimum switched current: 10Vdc 1mA
Dielectric Withstand: 250V.ac
Insulation Resistance: 100 Mohms
Recommended setting gap: 5mm
Switching Distance: 5mm
Saw 8mm Close
Sar 20mm Open
5mm in any direction from 5mm setting gap
Tolerance to Misalignment: 1.0 Hz maximum
Approach speed: 200mm/m to 1000mm/s
Body material: Polyester
Temperature Range: -25/80C
Enclosure Protection: IP67
Cable Type: PVC 8 core 6mm OD Conductors 0.25mm²

Characteristic Data according to IEC62061 (used as a sub system):

Safety Integrity Level: SIL3
PFH (1/h): 4.77E-10 Corresponds to 4.8% of SIL3
PFD: 4.18E-05 Corresponds to 4.2% of SIL3
Proof Test Interval T₁: 20a

Characteristic Data according to EN ISO13849-1:

Performance Level: e If both channels are used in combination with a SIL3/PLc control device

Category: Cat4
MTTFd: 1100a
Diagnostic Coverage DC: 99% (high)
Number of operating days per year: d_{op} = 365d
Number of operating hours per day: h_{op} = 24h
B10d: not mechanical parts implemented

When the product is used deviant from these assumptions (different load, operating frequency, etc.) the values have to be adjusted accordingly.



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.