

RFID Coded Non Contact Type: BMF Stainless Steel 316

FEATURES:

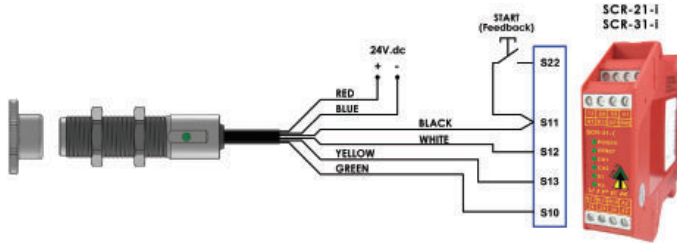
- M18 cylindrical fitting suitable for all industry applications.
- Easy to install - M18 threaded body - easy to set
- 8mm typical switching distance
- Suitable for harsh environments of Food Processing and Packaging
- High specification Stainless Steel 316 with mirror polished finish.
- For use in 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



RFID Coded Actuation
Typical switching distance up to 8mm
Will operate with most Safety Relays

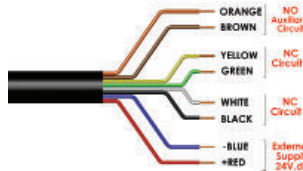
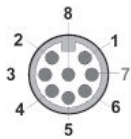
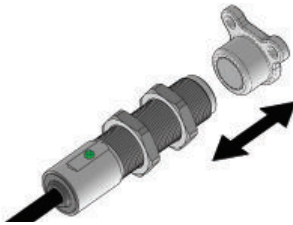
IP69K

CONNECTION EXAMPLE

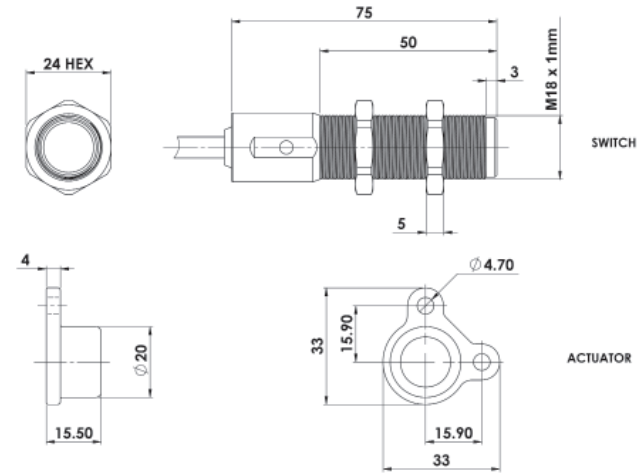


One switch connected to an SCR-21-i or SCR-31-i to give Dual Channel monitoring with manual start and contactor feedback check.

OPERATING DIRECTION:



DIMENSIONS:



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

Safety Classification and Reliability Data:

- Minimum switched current: 10V.d.c 1mA
- Dielectric Withstand: 250V.ac
- Insulation Resistance: 100 Mohms
- Recommended setting gap: 5mm
- Switching Distance: Sao 6mm Close, Sar 20mm Open
- Tolerance to Misalignment: 5mm in any direction from 5mm setting gap
- Switching frequency: 1.0 Hz maximum
- Approach speed: 200mm/m to 1000mm/s
- Body material: Stainless Steel 316 (mirror polished)
- Temperature Range: -25/80C
- Enclosure Protection: IP67/IP69K
- 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.

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
414001	BMF-M-RFID	5M
414002	BMF-M-RFID	10M
414003	BMF-M-RFID	QC-M12
414200	Replacement Actuator Master Coded	

SALES NUMBER	UNIQUELY CODED (every switch unique activation)	CABLE LENGTH
414101	BMF-U-RFID	5M
414102	BMF-U-RFID	10M
414103	BMF-U-RFID	QC-M12

	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.