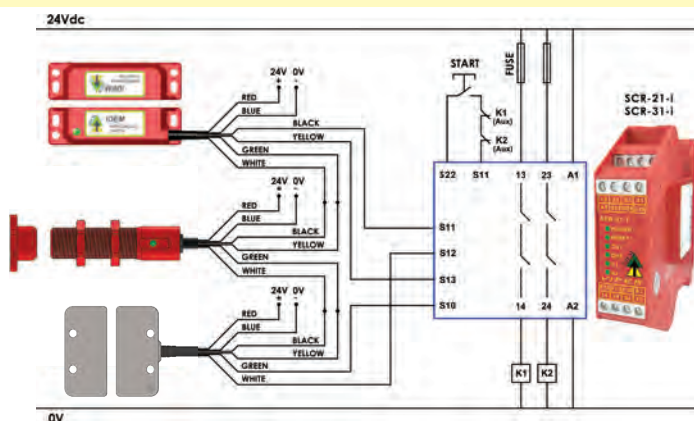


NON-CONTACT INTERLOCK SWITCHES

Wiring diagram for the SCR-21-i and SCR-31-i. The diagram shows two IDEM modules connected to a 24V DC source and a terminal block. The connections are as follows:

- RED: Connected to S22
- BLUE: Connected to S11
- BLACK: Connected to S11
- WHITE: Connected to S12
- YELLOW: Connected to S13
- GREEN: Connected to S10
- 24V dc: Connected to the positive terminal of the terminal block
- START (feedback): Connected to the negative terminal of the terminal block

The terminal block is labeled S22, S11, S12, S13, and S10. The IDEM modules are labeled IDEM.

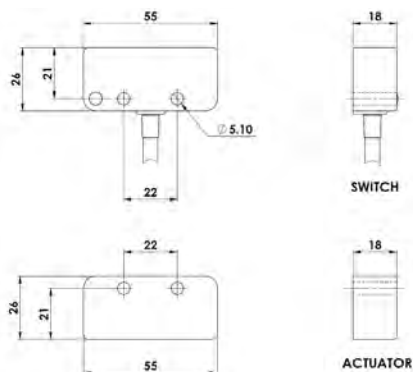


RFID Coded Stainless Steel 316: SMF-H

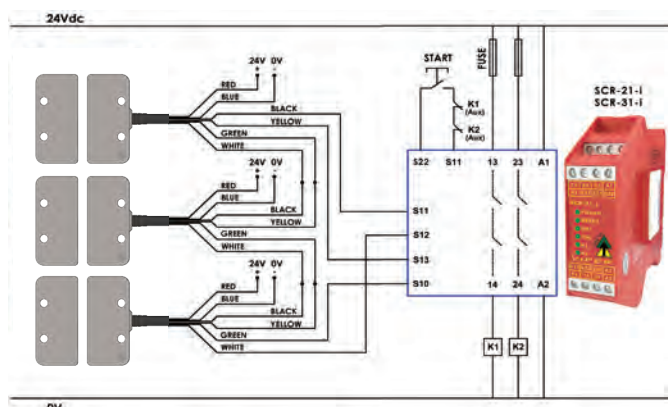
FEATURES:

Specifically designed for Food Processing applications.
Suitable for CIP cleaning - Food Splash Zones EHEDG Guidelines.
Wide 14mm sensing with high tolerance to misalignment.
LED indication.
Can be high pressure hosed with detergent at high temperature.
Up to: PLe ISO13849-1.
2NC 1NO circuits - high switching life - no moving parts.
Quick Connect versions available.

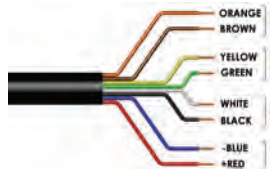
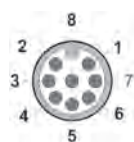
DIMENSIONS:



CONNECTION EXAMPLE



Three 2NC version switches connected in series to an SCR-21-i or SCR-31-i to give Dual Channel monitoring with Manual Start and Contactor Feedback Check



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	

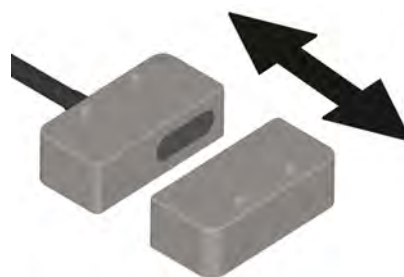
SALES NUMBER	MASTER CODED (same code every switch)	CABLE LENGTH
	SMF-H-M-RFID	5M
	SMF-H-M-RFID	10M
	SMF-H-M-RFID	QC-M12
	Replacement Actuator Master Coded	

RFID Coded Actuation.
Switching Tolerance up to 14mm.
Will operate with most Safety Relays.

NEW



OPERATING DIRECTION:



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

Safety Classification and Reliability Data:

Minimum switched current: 10V.dc 1mA
Dielectric Withstand: 250V.ac
Insulation Resistance: 100 Mohms
Recommended setting gap: 5mm
Switching Distance: Sao 8mm 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 finish)
Temperature Range: -25/80C (105C for CIP/SIP)
Enclosure Protection: IP67/IP69K (QC versions IP67 for connector)
Cable Type: PVC 6 or 8 core 6mm OD Conductors 0.25mm²
Mounting Bolts: 2 x M4 Tightening torque 1.0 Nm
Mounting Position: Any

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