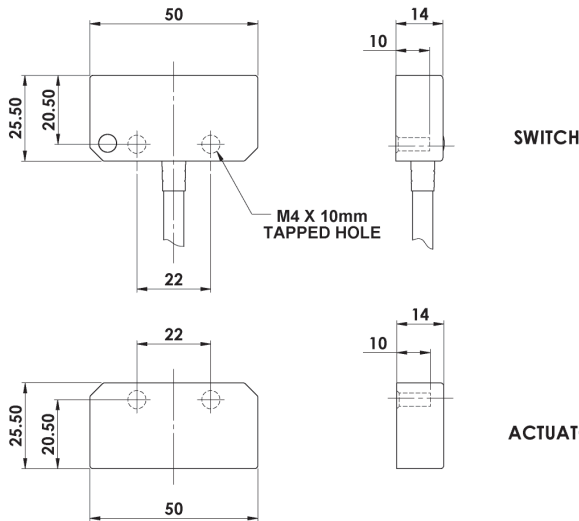


# HYGIECODE - Coded Non Contact Type: SMC-F

## FEATURES:

Specifically designed for Food Processing applications  
 Suitable for CIP and SIP cleaning - mounting holes at rear - no food traps  
 Wide 14mm sensing with high tolerance to misalignment  
 Universal housing - 22mm fixing hole centre - 50mm wide body  
 Can be high pressure hosed at high temperature - IP69K rating  
 Rear fixing with 2 x M4 tapped holes  
 Up to: PLe ISO13849-1  
 2NC 1NO circuits - high switching life - no moving parts  
 Quick Connect versions available

## DIMENSIONS:

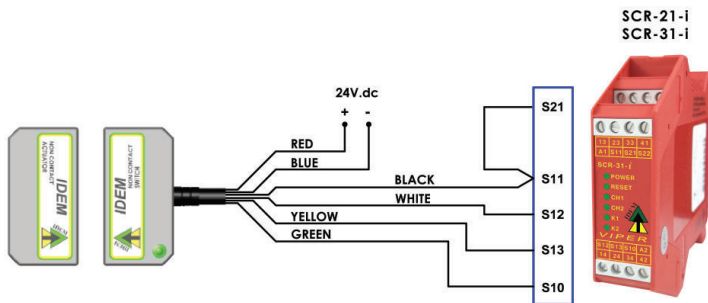


**Stainless Steel 316 Housing mirror polished (Ra4)**  
**Coded Magnetic Actuation**  
**Switching Tolerance up to 14mm**  
**Will operate with most Safety Relays**



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

## CONNECTION EXAMPLE: CODED SWITCHES

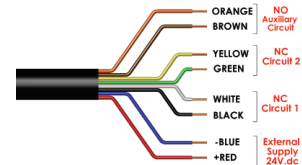
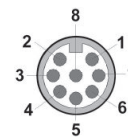


**Standards:** ISO14119 EN60947-5-1 EN60204-1 ISO13849-1 EN62061 UL508

### Safety Classification and Reliability Data:

ISO13849-1	Up to PLe Category 4
PFHd	2.6 x 10 <sup>-10</sup>
Proof Test Interval (Life)	20 years
MTTFd	866 years
Safety Channel 1 NC	24Vdc 0.2A Max. Rating
Safety Channel 2 NC	24Vdc 0.2A Max. Rating
Safety Channel 3 NO	24Vdc 0.2A Max. Rating
Minimum Switched Current	10Vdc 1mA
Dielectric Withstand	250Vac
Insulation Resistance	100 Mohms
Recommended Setting Gap	5mm
Switching Distance	Sao 10mm Close
(Target to Target)	Sar 20mm 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	Stainless Steel 316 mirror polished finish to Ra4
Operating Temperature	-25C +105C (CIP SIP cleaning)
Enclosure Protection	IP69K IP67
Shock Resistance	IEC68-2-27 11ms 30g
Vibration Resistance	IEC68-2-6 10-55Hz 1mm
Cable Type	PVC 6 or 8 core 6mm OD Conductors 0.25mm <sup>2</sup>
Mounting Bolts	2xM4 Tightening torque 1.0Nm
Mounting Position	Any

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



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 or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	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
3	Blue	Supply 0Vdc	+/- 10%

140101	Female QC Lead	M12 Female 5m. 8 way
140102	Female QC Lead	M12 Female 10m. 8 way

SALES NUMBER	TYPE	CABLE LENGTH	CIRCUITS
137001	Hygiecode SMC-F	2M	2NC
137002	Hygiecode SMC-F	5M	2NC
137003	Hygiecode SMC-F	10M	2NC
137004	Hygiecode SMC-F	QC-M12	2NC
137005	Hygiecode SMC-F	2M	2NC 1NO
137006	Hygiecode SMC-F	5M	2NC 1NO
137007	Hygiecode SMC-F	10M	2NC 1NO
137008	Hygiecode SMC-F	QC-M12	2NC 1NO
137105	Hygiecode SMC-F	2M	3NC
137106	Hygiecode SMC-F	5M	3NC
137107	Hygiecode SMC-F	10M	3NC
137108	Hygiecode SMC-F	QC-M12	3NC

Note: 2NC 1NO versions have 2NC Safety and 1NO Auxiliary Circuits  
 3NC versions have 2NC Safety and 1NC Auxiliary Circuits  
**AVAILABLE WITHOUT LED IF REQUIRED.**