

Magnetically Coded: SMC (HYGIECODE)

FEATURES:

Robust Stainless Steel 316 enclosure designed to survive the tough environments of Food Processing and Pharmaceutical industries.
LED indication.

Survives high pressure hosing at high temperature.

Wide 14mm sensing with high tolerance to misalignment.

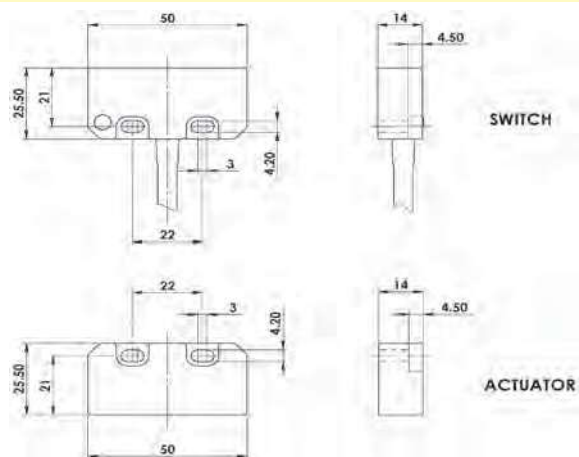
Universal fitting - 22mm footprint suitable for most applications.

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.

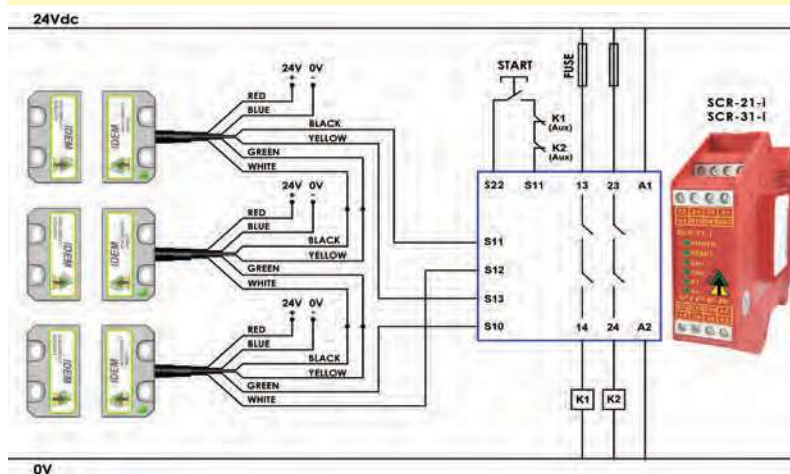
IP69K



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



CONNECTION EXAMPLE: CODED SWITCHES



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

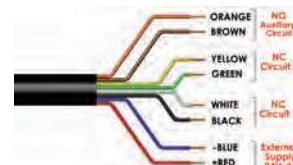
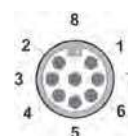
Safety Classification and Reliability Data:

ISO13849-1 Up to PLe Category 4
PFHd 2.6×10^{-10}
Proof Test Interval (Life) 20 years
MTTFd 866 years

Technical Specification:

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 (QC versions IP67 for connector)
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 0.25mm²
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 +/- 10%
3	Blue	Supply 0Vdc	Supply 24Vdc +/- 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
139001	Hygiecode SMC	2M	2NC
139002	Hygiecode SMC	5M	2NC
139003	Hygiecode SMC	10M	2NC
139004	Hygiecode SMC	QC-M12	2NC
139005	Hygiecode SMC	2M	2NC 1NO
139006	Hygiecode SMC	5M	2NC 1NO
139007	Hygiecode SMC	10M	2NC 1NO
139008	Hygiecode SMC	QC-M12	2NC 1NO
139105	Hygiecode SMC	2M	3NC
139106	Hygiecode SMC	5M	3NC
139107	Hygiecode SMC	10M	3NC
139108	Hygiecode SMC	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.