

# HYGIECODE – Coded Non Contact – Type SMC

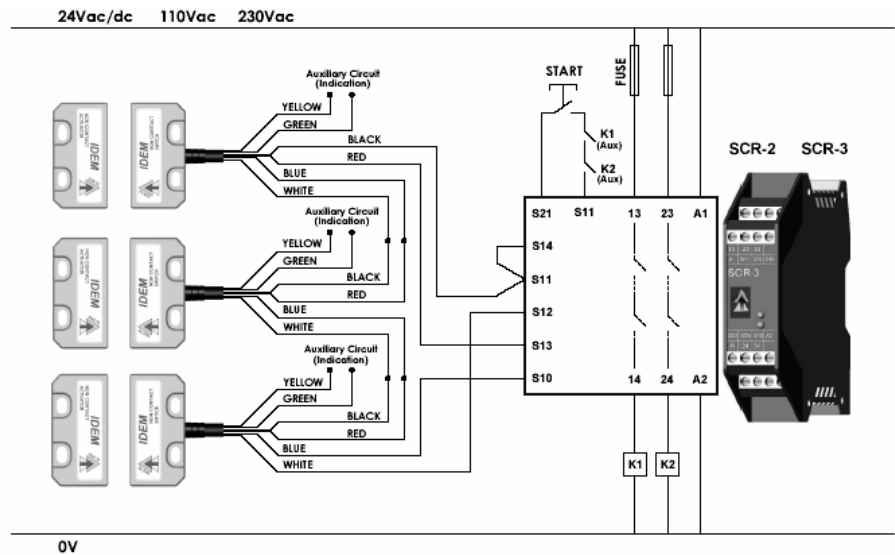
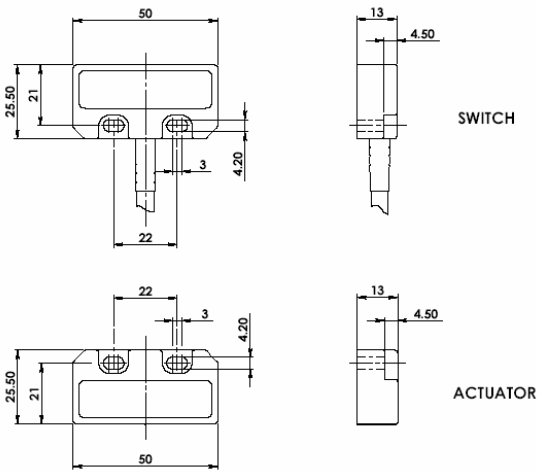


**Coded Magnetic Actuation**      **Switching Tolerance up to 14mm**      **Temperatures up to 105C.**  
**Stainless Steel 316 housing**      **IP69K**      **Mirror Finish**

Specifically designed for Food Processing applications – Stainless Steel 316 Mirror finish  
 Suitable for CIP cleaning  
 Universal housing - 22mm fixing hole centre - 50mm wide body  
 Can be high pressure hosed at high temperature – IP69K  
 Wide 14mm sensing high tolerance to misalignment  
 LED indication  
 Up to: PLe ISO 13849-1    SIL 3 EN 62061    Cat.4 EN 954-1  
 2NC 1NO circuits - High switching life – no moving parts



## Application example – coded switches

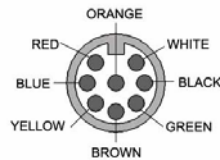


Three switches connected in series to an SCR-2 or SCR-3 to give Dual Channel monitoring with auto start and contactor feedback check. Optional auxiliary circuits provide for remote signalling from each switch.

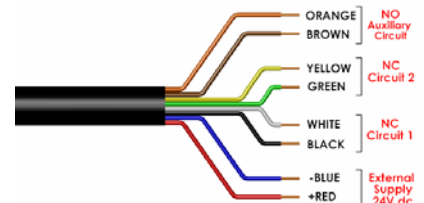
Standards EN1088 IEC 947-5-3 EN 60204-1  
 ISO 13849-1 EN 954-1 UL508

### Safety Classification and Reliability Data:

Switching Reliability > 3.3 x 10<sup>6</sup> operations at 100mA load up to Category 4 with Safety Relay up to PLe depending upon system architecture up to SIL3 depending upon system architecture  
 Safety Data - Annual Usage 8 cycles per hour / 24 hours per day / 365 days  
 PFHd > 2.52 x 10<sup>-8</sup>  
 Proof Test Interval (Life) 47 years  
 MTTFd 470 years  
 Safety Channel 1 NC 24V.dc 0.2 A Max. Rating  
 Safety Channel 2 NC 24V.dc 0.2 A Max. Rating  
 Safety Channel 3 NO 24V.dc 0.2 A Max. Rating  
 Minimum switched current 10V. dc 1mA  
 Dielectric withstand 250V.ac  
 Insulation Resistance 100 Mohms  
 Recommended setting gap 5mm  
 Switching Distance: Sao 10mm 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 finish  
 Temperature Range -25 / 105C.  
 Enclosure Protection IP69K IP67  
 Shock Resistance IEC 68-2-27 11ms 30g  
 Vibration Resistance IEC 68-2-6 10-55 Hz. 1mm  
 Cable Type PVC 6 or 8 core 6mm O.D.  
 Mounting Bolts 2 x M4 Tightening torque 1.0 Nm  
 Mounting Position Any



QC-M12 pin view



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