HYGIECODE - Coded Non Contact - Type: MMC-H

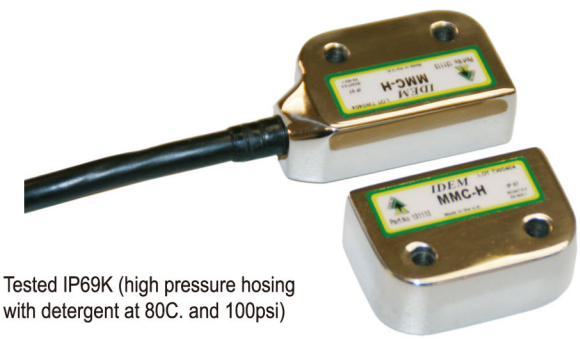
Coded Magnetic Actuation **Switching Tolerance up to 10mm**

Compact yet robust fitting suitable for all small guard applications.
Through hole fixing to enable front mounting
No food trap areas
Suitable for CIP SIP cleaning - Food Contact
or Splash Zones EHEDG guideline
LED indication.
Cost effective interlock solution.
Wide sensing at 10mm.
Can be mounted unobtrusively in channels or behind doors - left or right cable exit
UP to: PLe ISO 13849-1 SIL 3 EN 62061 Cat. 4 EN 954-1
2NC 1NO circuits - High switching life - no moving parts

Specified to 105C but designed to work up to 125C.

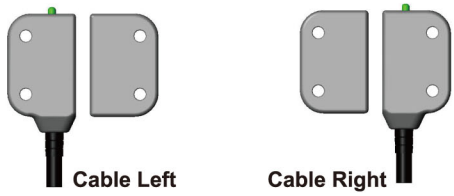
Will operate with most Safety Relays

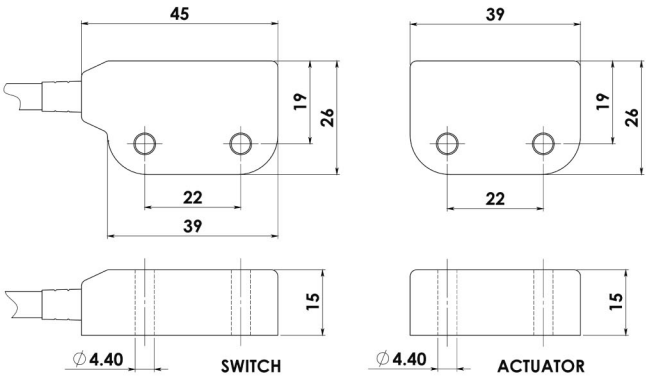
Stainless Steel Housing



Tested IP69K (high pressure hosing with detergent at 80C. and 100psi)

Left or Right cable exit available





Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	

Standards	EN1088 IEC 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10^6 operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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^{-8}
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 8mm Close
(Target to target)	Sar 12mm 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 (Ra4)
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

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

For all IDEM switches the NC circuits are closed
when the guard is closed and the actuator present

Sales Number	Type	Cable Length	Circuits
131101	MMC-H Cable Right	2M	2NC
131102	MMC-H Cable Right	5M	2NC
131103	MMC-H Cable Right	10M	2NC
131104	MMC-H Cable Right	QC-M12*	2NC
131105	MMC-H Cable Right	2M	2NC 1NO
131106	MMC-H Cable Right	5M	2NC 1NO
131107	MMC-H Cable Right	10M	2NC 1NO
131108	MMC-H Cable Right	QC-M12*	2NC 1NO
131109	MMC-H Cable Right	2M	3NC
131110	MMC-H Cable Right	5M	3NC
131111	MMC-H Cable Right	10M	3NC
131112	MMC-H Cable Right	QC-M12*	3NC
131113	MMC-H Cable Left	2M	2NC
131114	MMC-H Cable Left	5M	2NC
131115	MMC-H Cable Left	10M	2NC
131116	MMC-H Cable Left	QC-M12*	2NC
131117	MMC-H Cable Left	2M	2NC 1NO
131118	MMC-H Cable Left	5M	2NC 1NO
131119	MMC-H Cable Left	10M	2NC 1NO
131120	MMC-H Cable Left	QC-M12*	2NC 1NO
131121	MMC-H Cable Left	2M	3NC
131122	MMC-H Cable Left	5M	3NC
131123	MMC-H Cable Left	10M	3NC
131124	MMC-H Cable Left	QC-M12*	3NC
	* Other QC sizes available upon request		

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

HYGIECODE - Coded Non Contact - Type: SMC

Coded Magnetic Actuation **Switching Tolerance up to 14mm**

Will operate with most Safety Relays

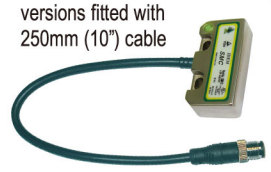
Specified to 105C but designed to work up to 125C.

Robust Stainless Steel 316 enclosure designed to survive the tough environments of Food and Pharmaceutical applications.
LED indication. Stainless Steel 316 Mirror polish finish (Ra4).
Survives high pressure hosing at high temperature.
High temperature specification 105C.
Wide 14mm sensing and high tolerance to misalignment.
Universal fitting - established 22mm fixing footprint suitable for most general applications.
Quick connect versions.
Suitable for CIP SIP cleaning - Food Splash zones EHEDG guidelines
Up to: PLe ISO 13849-1 SIL 3 EN 62061 Cat 4 EN 954-1
2NC 1NO circuits - High switching life - no moving parts

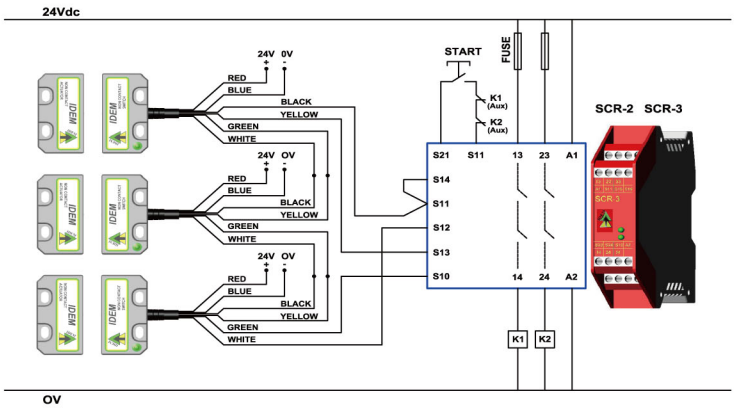
Stainless Steel Housing

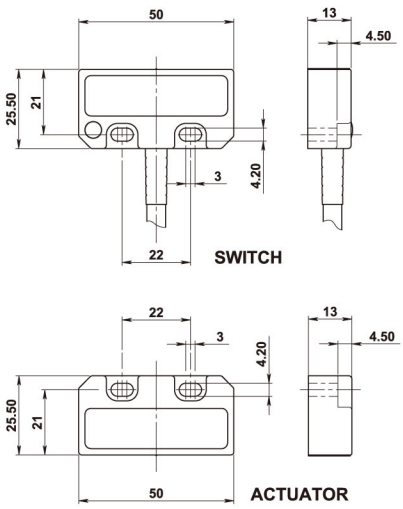
Tested IP69K (high pressure hosing with detergent at 80C. and 100psi)

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



Connection example - coded switches





Standards	EN1088 IEC 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10^6 operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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^{-8}
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
(Target to target)	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 (Ra4)
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

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

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present

Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	

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

HYGIECODE - Coded Non Contact - Type: SMC-F

Coded Magnetic Actuation **Switching Tolerance up to 14mm**

Stainless Steel 316 housing **IP69K** **Specified to 105C but designed to work up to 125C.**

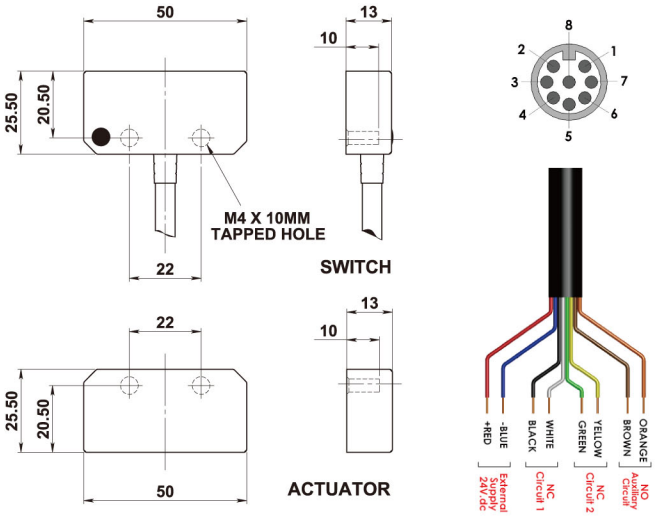
Specifically designed for Food Processing applications - Stainless Steel 316 Mirror polished finish (Ra4).
Suitable for CIP and SIP cleaning - mounting holes are at the rear - no food traps
Universal housing - 22mm fixing hole centre - 50mm wide body
Rear fixing 2 x M4 tapped holes
Can be high pressure 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

No Food Trap Housing -
Rear Mounting Holes

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

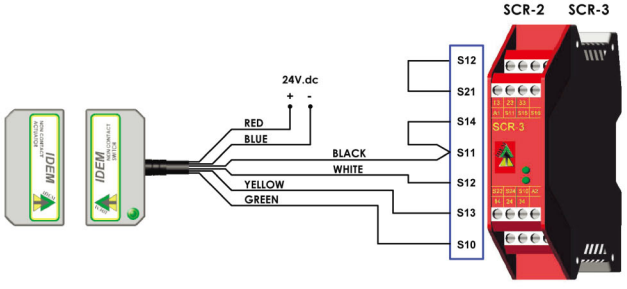
Stainless Steel Housing

Tested IP69K (high pressure hosing with detergent at 80C. and 100psi)



Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	

Standards	EN1088 IEC 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10^6 operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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^{-8}
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
(Target to target)	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 (Ra4)
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



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

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present

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

HYGIECODE - Coded Non Contact - Type: SMC-H

Coded Magnetic Actuation **Switching Tolerance up to 14mm**

Will operate with most Safety Relays

Specified to 105C but designed to work up to 125C.

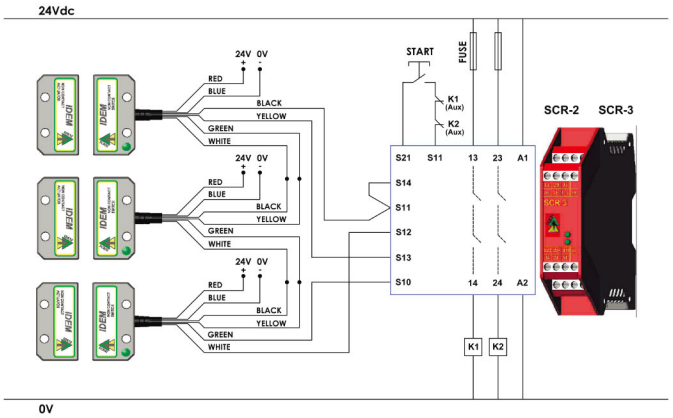
Robust Stainless Steel 316 enclosure designed to survive Food and Pharmaceutical applications.
Through Hole Fixing to enable front mounting by hexagon head bolts - no food trap areas
Suitable for CIP SIP cleaning - Food Contact or Splash zones EHEDG guidelines
LED indication. Stainless Steel 316 Mirror polish finish (Ra4).
Survives high pressure hosing at high temperature.
High temperature specification 105C.
Wide 14mm sensing and high tolerance to misalignment.
Universal fitting - established 22mm fixing footprint suitable for most general applications.
Up to: PLe ISO 13849-1 SIL 3 EN 62061 Cat 4 EN 954-1
2NC 1NO circuits - High switching life - no moving parts
Quick connect versions.

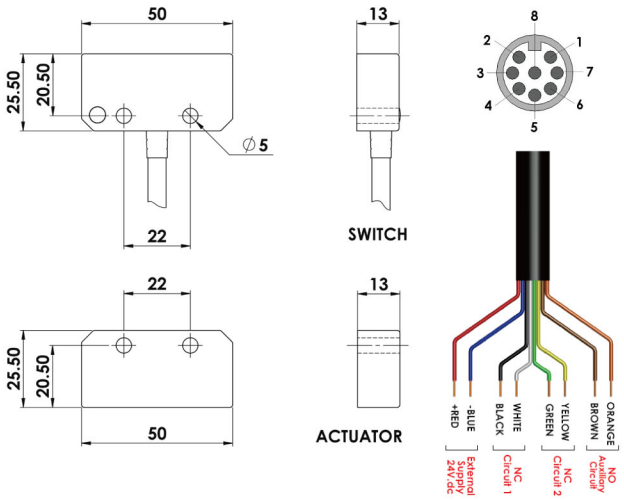
Stainless Steel Housing

use Hexagon Head Bolts for ease of cleaning.

Tested IP69K (high pressure hosing with detergent at 80C. and 100psi)

Connection example - coded switches





Standards	EN1088 IEC 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10^6 operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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^{-8}
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
(Target to target)	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 (Ra4)
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

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

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present

Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	

Sales Number	Type	Cable Length	Circuits
132001	Hygiecode SMC-H	2M	2NC
132002	Hygiecode SMC-H	5M	2NC
132003	Hygiecode SMC-H	10M	2NC
132004	Hygiecode SMC-H	QC-M12	2NC
132005	Hygiecode SMC-H	2M	2NC 1NO
132006	Hygiecode SMC-H	5M	2NC 1NO
132007	Hygiecode SMC-H	10M	2NC 1NO
132008	Hygiecode SMC-H	QC-M12	2NC 1NO
132105	Hygiecode SMC-H	2M	3NC
132106	Hygiecode SMC-H	5M	3NC
132107	Hygiecode SMC-H	10M	3NC
132108	Hygiecode SMC-H	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

HYGIECODE - Coded Non Contact - Type: LMC

Coded Magnetic Actuation **Switching Tolerance up to 14mm**

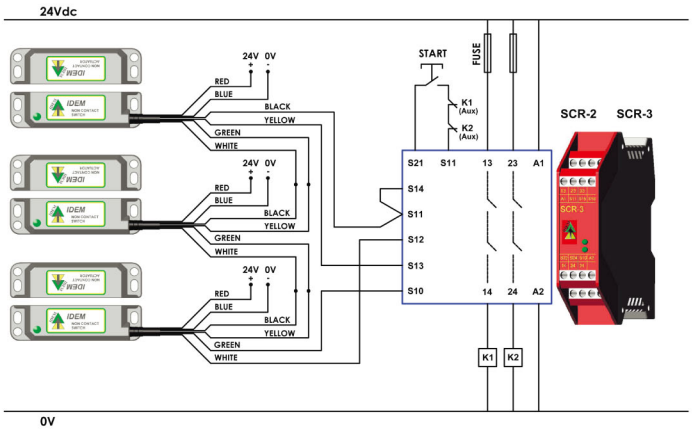
Specifically designed for Food Processing applications - Stainless Steel 316 Mirror polished finish (Ra4).
Suitable for CIP cleaning - Food Splash zones EHEDG guidelines
Wide 14mm sensing high tolerance to misalignment.
LED indication
Quick connect versions.
Magnetic Holding Versions for use with small guards
Up to: PLe ISO 13849-1 SIL 3 EN 62061 Cat 4 EN 954-1
2NC 1NO circuits - High switching life - no moving parts

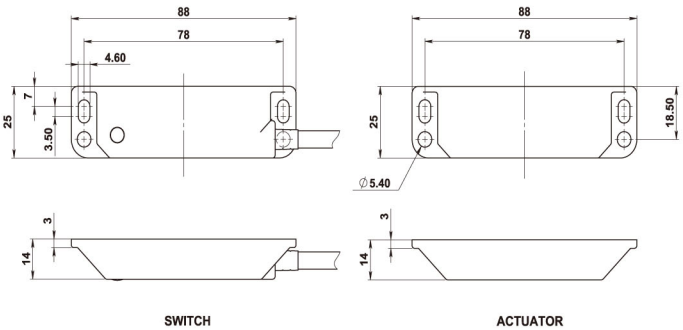
Specified to 105C
but designed to work up to 125C.
Will operate with most EN 954-1
Cat.4 Safety Relays

Stainless Steel Housing

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

Tested IP69K (high pressure hosing with detergent at 80C. and 100psi)





Three 2NC version switches connected in series to an SCR-2 or SCR-3 to give Dual Channel monitoring with manual start and contactor feedback check.

Standards	EN1088 IEC 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10^6 operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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^{-8}
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
(Target to target)	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 (Ra4)
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

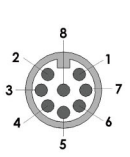
Magnetic Holding versions

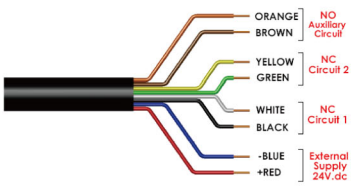
At 1mm setting gap: 10N.
At 5mm setting gap: 5N.

Sales Number	Type	Cable Length	Circuits
133001	Hygiecode LMC	2M	2NC
133002	Hygiecode LMC	5M	2NC
133003	Hygiecode LMC	10M	2NC
133004	Hygiecode LMC	QC-M12	2NC
133005	Hygiecode LMC	2M	2NC 1NO
133006	Hygiecode LMC	5M	2NC 1NO
133007	Hygiecode LMC	10M	2NC 1NO
133008	Hygiecode LMC	QC-M12	2NC 1NO
133017	Hygiecode LMC	2M	3NC
133018	Hygiecode LMC	5M	3NC
133019	Hygiecode LMC	10M	3NC
133020	Hygiecode LMC	QC-M12	3NC

For Magnetic Holding Versions add 10N to Part Number
Example: LMC 2NC 10m. with Magnetic Hold Part 133003-10N

Note: 2NC 1NO versions have 2NC Safety and 1NO Auxiliary Circuits
3NC versions have 2NC Safety and 1NC Auxiliary Circuits





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

Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present

HYGIECODE – Coded Non Contact – Type: CMC

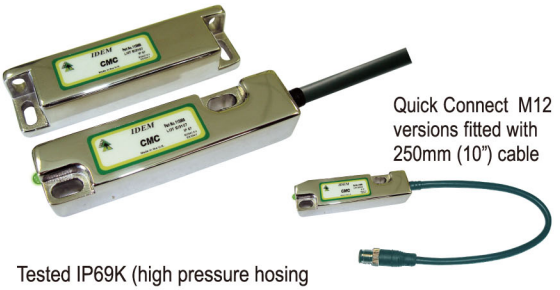
Coded Magnetic Actuation **Switching Tolerance up to 14mm**

Will operate with most Safety Relays **IP69K**

Specified to 105C
but designed to work up to 125C.

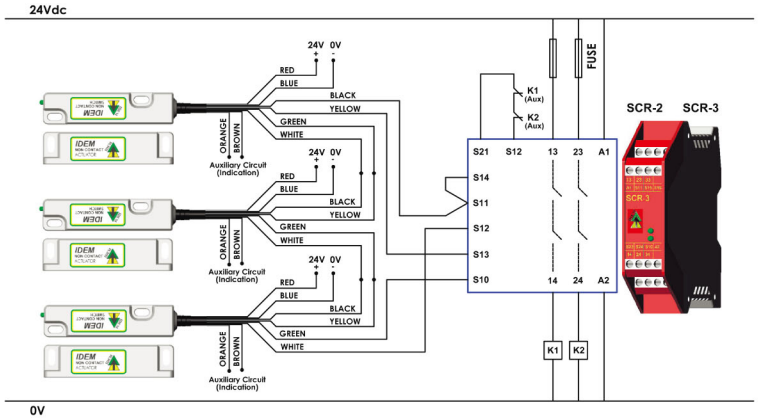
Specifically designed for Food Processing applications - Stainless Steel 316 Mirror polished finish (Ra4).
Suitable for CIP cleaning
Industry standard slim 20mm wide housing - can be fitted in narrow channels
Can be high pressure hosed at high temperature - IP69K
Wide 14mm sensing high tolerance to misalignment.
LED indication
Suitable for CIP SIP cleaning - Food Splash zones EHEDG guidelines
Up to: PLe ISO 13849-1 SIL 3 EN 62061 Cat 4 EN 954-1
2NC 1NO circuits - High switching life - no moving parts

Stainless Steel Housing

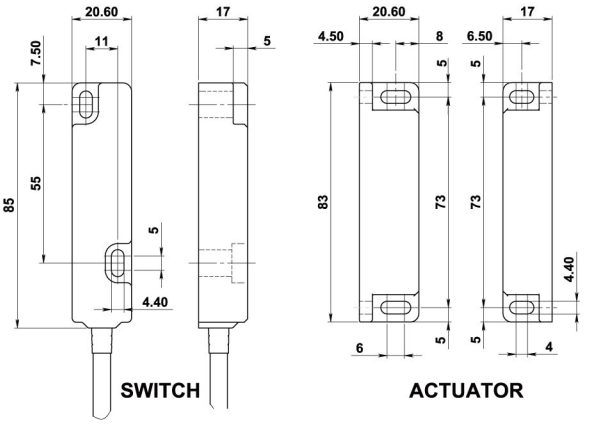


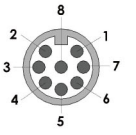
Quick Connect M12 versions fitted with 250mm (10") cable

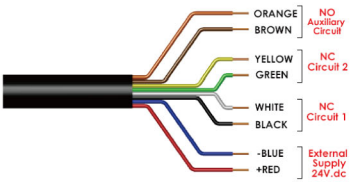
Tested IP69K (high pressure hosing with detergent at 80C. and 100psi)



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 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10^6 operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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^{-8}
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
(Target to target)	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 (Ra4)
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

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

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present

Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	

Sales Number	Type	Cable Length	Circuits
138001	Hygiecode CMC	2M	2NC
138002	Hygiecode CMC	5M	2NC
138003	Hygiecode CMC	10M	2NC
138004	Hygiecode CMC	QC-M12	2NC
138005	Hygiecode CMC	2M	2NC 1NO
138006	Hygiecode CMC	5M	2NC 1NO
138007	Hygiecode CMC	10M	2NC 1NO
138008	Hygiecode CMC	QC-M12	2NC 1NO
138105	Hygiecode CMC	2M	3NC
138106	Hygiecode CMC	5M	3NC
138107	Hygiecode CMC	10M	3NC
138108	Hygiecode CMC	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

HYGIECODE - Coded Non Contact - Type: CMC-F

Coded Magnetic Actuation **Switching Tolerance up to 14mm**

Stainless Steel 316 housing **IP69K**

Specified to 105C, but designed to work up to 125C
Will operate with most Safety Relays

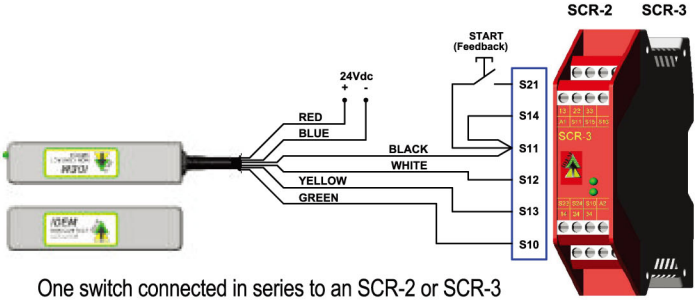
Specifically designed for Food Processing applications - Stainless Steel 316 Mirror polished finish (Ra4).
Suitable for CIP SIP cleaning - mounting holes are at the rear - no food traps
Suitable for Food contact zones - EHEDG guidelines
Slim fixing - can be fitted in narrow channels
Can be high pressure 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

Stainless Steel Housing

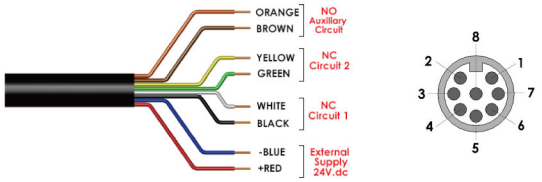
No Food Trap Housing –
Rear Mounting Holes

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

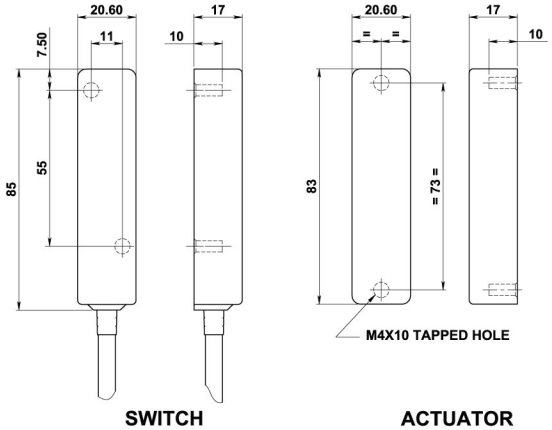
Tested IP69K (high pressure hosing with detergent at 80C. and 100psi)



One switch connected in series to an SCR-2 or SCR-3 to give Dual Channel monitoring with manual start.



Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	



SWITCH **ACTUATOR**

Standards	EN1088 IEC 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10^6 operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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^{-8}
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
(Target to target)	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 (Ra4)
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

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present

Sales Number	Type	Cable Length	Circuits
135001	Hygiecode CMC-F	2M	2NC
135002	Hygiecode CMC-F	5M	2NC
135003	Hygiecode CMC-F	10M	2NC
135004	Hygiecode CMC-F	QC-M12	2NC
135005	Hygiecode CMC-F	2M	2NC 1NO
135006	Hygiecode CMC-F	5M	2NC 1NO
135007	Hygiecode CMC-F	10M	2NC 1NO
135008	Hygiecode CMC-F	QC-M12	2NC 1NO
135105	Hygiecode CMC-F	2M	3NC
135106	Hygiecode CMC-F	5M	3NC
135107	Hygiecode CMC-F	10M	3NC
135108	Hygiecode CMC-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

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

HYGIECODE - Coded Non Contact - Type WMC

Coded Magnetic Actuation **Switching Tolerance up to 14mm**

Will operate with most Safety Relays

Specified to 105C
but designed to work up to 125C.

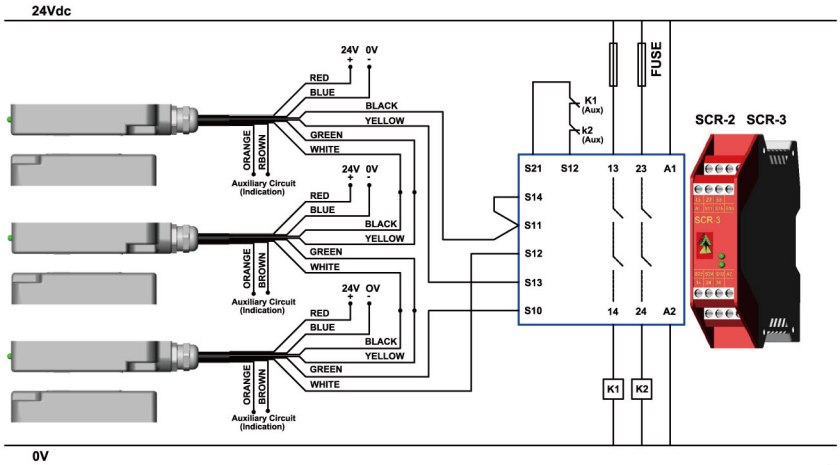
Stainless Steel Housing

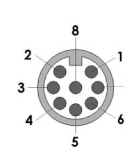
Specifically designed for Food Processing applications - Stainless Steel 316 Mirror polished (Ra4)
Robust 32mm wide housing - no moving parts - survives shock and vibration
Can be high pressure hosed at high temperature - IP69K
Wide 14mm sensing high tolerance to misalignment.
LED indication
Suitable for CIP SIP cleaning food Splash zones EHEDG guidelines
Up to: PLe ISO 13849-1 SIL 3 EN 62061 Cat 4 EN 954-1
2NC 1NO circuits - High switching life - no moving parts

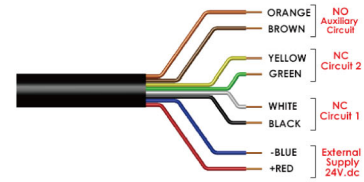
Quick Connect M12 versions fitted with 250mm (10") cable

Tested IP69K (high pressure hosing with detergent at 80C. and 100psi)

Connection example – coded switches

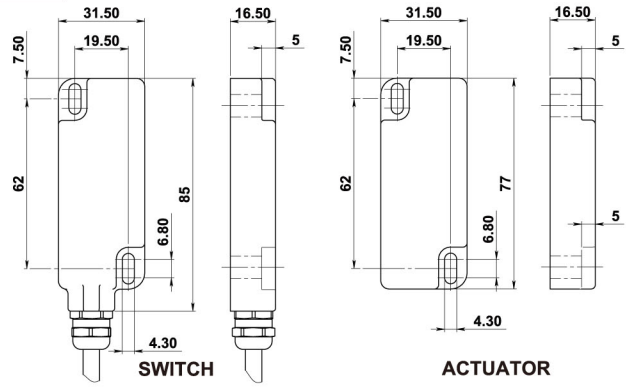






Three switches connected in series to an SCR-2 or SCR-3 to give Dual Channel monitoring with auto start and contactor feedback check. Optional auxiliary circuits provide for remote signalling from each switch.

Standards	EN1088 IEC 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10^6 operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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^{-8}
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
(Target to target)	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 (Ra4)
Temperature Range	–25 +105C.
Enclosure Protection	IP69K (NEMA PW12) IP67 (NEMA 6)
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



Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	

Sales Number	Type	Cable Length	Circuits
136013	Hygiecode WMC	2M	2NC
136014	Hygiecode WMC	5M	2NC
136015	Hygiecode WMC	10M	2NC
136016	Hygiecode WMC	QC-M12	2NC
136017	Hygiecode WMC	2M	2NC 1NO
136018	Hygiecode WMC	5M	2NC 1NO
136019	Hygiecode WMC	10M	2NC 1NO
136020	Hygiecode WMC	QC-M12	2NC 1NO

Available without LED if required

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

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present

HYGIECODE - Coded Non Contact - Type: RMC

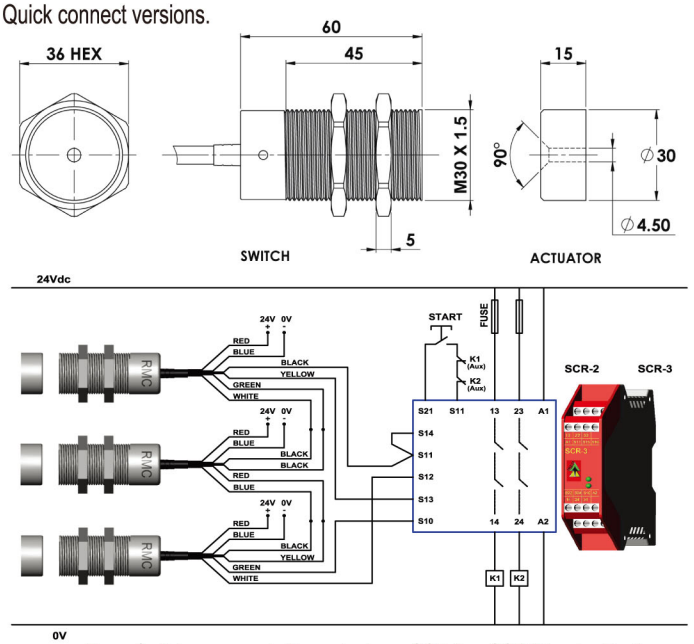
Coded Magnetic Actuation **Switching Tolerance up to 10mm**

Cylindrical fitting suitable for all industry applications.
Easy to install - M30 threaded body - easy to set
Wide 10mm sensing - low hysterisis - no moving parts
Suitable to be harsh environments of Food processing and packaging
Can be flush mounted - solid stainless steel 316 housing
LED indication Stainless Steel 316
Up to: PLe ISO 13849-1 SIL 3 EN 62061 Cat 4 EN 954-1
2NC 1NO circuits
Quick connect versions.

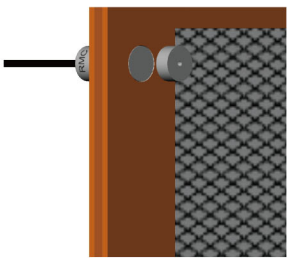
Specified to 105C, but designed to work up to 125C
Will operate with most Safety Relays

Stainless Steel Housing

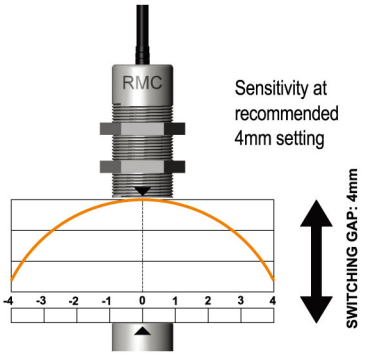
Tested IP69K (high pressure hosing with detergent at 80C. and 100psi)

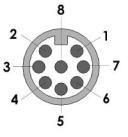


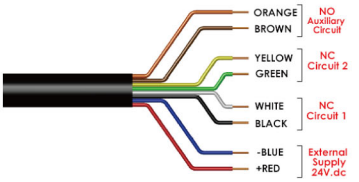
Three Switches connected in series to an SCR-2 or SCR-3 to give Dual Channel Guard monitoring manual start and contactor feedback check.



Can be flush mounted







Standards	EN1088 IEC 60947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10^6 operations at 100mA load
EN 954-1	up to Category 4 with Safety Relay
ISO 13849-1	up to PLe depending upon system architecture
EN 62061	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^{-8}
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 8mm Close
(Target to target)	Sar 12mm 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 (Ra4)
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

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

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present

Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)	Flying Lead Colours	Circuit (Actuator Present)	Output Types Solid State
8	Orange	Auxiliary NO or NC	200mA Max. 24Vdc
5	Brown	Auxiliary NO or NC	
4	Yellow	Safety NC2 +ve	200mA Max. 24Vdc
6	Green	Safety NC2 -ve	
7	Black	Safety NC1 +ve	200mA Max. 24Vdc
1	White	Safety NC1 -ve	
2	Red	Supply +24Vdc	Supply 24Vdc +/- 10%
3	Blue	Supply 0Vdc	

Sales Number	Type	Cable Length	Circuits
134001	Hygiecode RMC	2M	2NC
134002	Hygiecode RMC	5M	2NC
134003	Hygiecode RMC	10M	2NC
134004	Hygiecode RMC	QC-M12	2NC
134005	Hygiecode RMC	2M	2NC 1NO
134006	Hygiecode RMC	5M	2NC 1NO
134007	Hygiecode RMC	10M	2NC 1NO
134008	Hygiecode RMC	QC-M12	2NC 1NO
134105	Hygiecode RMC	2M	3NC
134106	Hygiecode RMC	5M	3NC
134107	Hygiecode RMC	10M	3NC
134108	Hygiecode RMC	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