Coded Magnetic Actuation

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: PPE ISO 13849-1 SIL 3 EN 62061 Cat. 4 EN 954-1
2NC 1NO circuits - High switching life - no moving parts

Switching Tolerance up to 10mm

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)

<table>
<thead>
<tr>
<th>Lead</th>
<th>Circuit</th>
<th>Output Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Orange</td>
<td>Auxiliary NO or NC</td>
</tr>
<tr>
<td>5</td>
<td>Brown</td>
<td>Auxiliary NO or NC</td>
</tr>
<tr>
<td>4</td>
<td>Yellow</td>
<td>Safety NC2 +ve</td>
</tr>
<tr>
<td>6</td>
<td>Green</td>
<td>Safety NC2 -ve</td>
</tr>
<tr>
<td>7</td>
<td>Black</td>
<td>Safety NC1 +ve</td>
</tr>
<tr>
<td>1</td>
<td>White</td>
<td>Safety NC1 -ve</td>
</tr>
<tr>
<td>2</td>
<td>Red</td>
<td>Supply +24Vdc</td>
</tr>
<tr>
<td>3</td>
<td>Blue</td>
<td>Supply 0Vdc</td>
</tr>
</tbody>
</table>

Quick Connect (QC)
M12 8 way Male Connector

Solder Lug Terminals

<table>
<thead>
<tr>
<th>Sales Number</th>
<th>Type</th>
<th>Cable Length</th>
<th>Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>131101</td>
<td>MMC-H Cable</td>
<td>2M</td>
<td>2NC</td>
</tr>
<tr>
<td>131102</td>
<td>MMC-H Cable</td>
<td>5M</td>
<td>2NC</td>
</tr>
<tr>
<td>131103</td>
<td>MMC-H Cable</td>
<td>10M</td>
<td>2NC</td>
</tr>
<tr>
<td>131104</td>
<td>MMC-H Cable</td>
<td>QC-M12*</td>
<td>2NC</td>
</tr>
<tr>
<td>131105</td>
<td>MMC-H Cable</td>
<td>2M</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>131106</td>
<td>MMC-H Cable</td>
<td>5M</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>131107</td>
<td>MMC-H Cable</td>
<td>10M</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>131108</td>
<td>MMC-H Cable</td>
<td>QC-M12*</td>
<td>2NC 1NO</td>
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<tr>
<td>131109</td>
<td>MMC-H Cable</td>
<td>2M</td>
<td>3NC</td>
</tr>
<tr>
<td>131110</td>
<td>MMC-H Cable</td>
<td>5M</td>
<td>3NC</td>
</tr>
<tr>
<td>131111</td>
<td>MMC-H Cable</td>
<td>10M</td>
<td>3NC</td>
</tr>
<tr>
<td>131112</td>
<td>MMC-H Cable</td>
<td>QC-M12*</td>
<td>3NC</td>
</tr>
<tr>
<td>131113</td>
<td>MMC-H Cable</td>
<td>2M</td>
<td>2NC</td>
</tr>
<tr>
<td>131114</td>
<td>MMC-H Cable</td>
<td>5M</td>
<td>2NC</td>
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<tr>
<td>131115</td>
<td>MMC-H Cable</td>
<td>10M</td>
<td>2NC</td>
</tr>
<tr>
<td>131116</td>
<td>MMC-H Cable</td>
<td>QC-M12*</td>
<td>2NC</td>
</tr>
<tr>
<td>131117</td>
<td>MMC-H Cable</td>
<td>2M</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>131118</td>
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<td>5M</td>
<td>2NC 1NO</td>
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<td>131119</td>
<td>MMC-H Cable</td>
<td>10M</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>131120</td>
<td>MMC-H Cable</td>
<td>QC-M12*</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>131121</td>
<td>MMC-H Cable</td>
<td>2M</td>
<td>3NC</td>
</tr>
<tr>
<td>131122</td>
<td>MMC-H Cable</td>
<td>5M</td>
<td>3NC</td>
</tr>
<tr>
<td>131123</td>
<td>MMC-H Cable</td>
<td>10M</td>
<td>3NC</td>
</tr>
<tr>
<td>131124</td>
<td>MMC-H Cable</td>
<td>QC-M12*</td>
<td>3NC</td>
</tr>
</tbody>
</table>

* 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

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

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

www.idemsafety.com
HYGIECODE - Coded Non Contact - Type: SMC

Coded Magnetic Actuation

Will operate with most Safety Relays

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

Connection example - coded switches

Quick Connect (QC) M12 8 way Male Plug
(Pin view from switch)

Circuit (Actuator Present)

Flying Lead Colours

0-8 Orange
0-5 Brown
0-6 Yellow
0-4 Red
0-7 Green
0-2 Blue
0-3 White

200mA Max. 24Vdc
200mA Max. 24Vdc
200mA Max. 24Vdc
200mA Max. 24Vdc
Supplied 24Vdc +/- 10%

Cable Length

Sales

Number

Type

Circuits

139001
Hygienic code SMC
2M
2NC

139002
Hygienic code SMC
5M
2NC

139003
Hygienic code SMC
10M
2NC

139004
Hygienic code SMC QC-M12
2NC

139005
Hygienic code SMC
2M
2NC 1NO

139006
Hygienic code SMC
5M
2NC 1NO

139007
Hygienic code SMC
10M
2NC 1NO

139008
Hygienic code SMC QC-M12
2NC 1NO

139105
Hygienic code SMC
2M
3NC

139106
Hygienic code SMC
5M
3NC

139107
Hygienic code SMC
10M
3NC

139108
Hygienic code SMC QC-M12
3NC

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

Available without LED if required
Coded Magnetic Actuation  Switching Tolerance up to 14mm

Stainless Steel 316 housing  IP69K

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

Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)

<table>
<thead>
<tr>
<th>Circuit (Actuator Present)</th>
<th>Output Types Solid State</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 Orange Auxiliary NO or NC</td>
<td>200mA Max. 24Vdc</td>
</tr>
<tr>
<td>5 Brown Auxiliary NO or NC</td>
<td>200mA Max. 24Vdc</td>
</tr>
<tr>
<td>4 Yellow Safety NC2 +ve</td>
<td>200mA Max. 24Vdc</td>
</tr>
<tr>
<td>6 Green Safety NC2 -ve</td>
<td>200mA Max. 24Vdc</td>
</tr>
<tr>
<td>7 Black Safety NC1 +ve</td>
<td>200mA Max. 24Vdc</td>
</tr>
<tr>
<td>1 White Safety NC1 -ve</td>
<td>Supply 24Vdc +/-10%</td>
</tr>
<tr>
<td>2 Red Supply +/-24Vdc</td>
<td>Supply 24Vdc +/-10%</td>
</tr>
<tr>
<td>3 Blue Supply 0Vdc</td>
<td></td>
</tr>
</tbody>
</table>

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

www.idemsafety.com
HYGIECODE - Coded Non Contact - Type: SMC-H

Coded Magnetic Actuation  Switching Tolerance up to 14mm

Will operate with most Safety Relays

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.

Connection example - coded switches

Specifications:
- 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 10⁸ 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
- PP/ah 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 1 mA
- Dielectric withstand 250V ac
- Insulation Resistance 100 Megohms
- Recommended setting gap 5mm
- Switching Distance: Sae 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/min. to 1000mm/s
- Body Material Stainless Steel 316 Mirror polished finish (Ra4)
- Temperature Range -25 +105C.
- Enclosure Protection IP65K IP67
- Shock Resistance IEC 68-2-27 11ms 30g
- Vibration Resistance IEC 68-2-6 10-55 Hz 1mm
- Cable Type PVC 8 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
- 1 - Orange
- 2 - Red
- 3 - Blue
- 4 - Yellow
- 5 - Brown
- 6 - Green
- 7 - Black
- 8 - White

Circuit (Actuator Present)
- Supply 24Vdc 0Vdc

Output Types Solid State
- 200mA Max. 24Vdc
- 200mA Max. 24Vdc
- Supply 24Vdc +/- 10%

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

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

Available without LED if required

For all IDEM switches the NC circuits are closed when the guard is closed and the actuator present.
HYGIECOCODE - 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: tFe 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 500mm (10') cable

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
EN1068 IEC 60947-5-3 EN 6204-1
ISO 13849-1 EN62061 EN 954-1 UL508

Safety Classification and Reliability Data:

Switching Reliability 3 x 10^9 operations at 100mA load
up to Category 4 with Safety Relay
EN 954-1
ISO 13849-1
EN 62061
Safety Data - Annual Usage
8 cycles per hour / 24 hours per day / 365 days
PFHd 2.5 x 10^-8
Proof Test Interval (Life)
MTTft 47 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 NO 24V dc 0.2 A Max. Rating
Minimum switched current 10V ac 1mA
Dielectric withstand 250V ac
Insulation Resistance 100 Mohms
Recomended setting gap 5mm
Switiching Distance: 10mm Close
Tolerance to misalignment 5mm in any direction from 5mm setting gap
Switching Frequency 1.0 Hz maximum
Approach speed 200mm/s to 1000mm/s.
Body Material
Stainless Steel 316 Mirror polished finish (Ra4)
Temperature Range -25 to +105C
Endurance Protection IP69K IP67
Shock Resistance 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.

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

www.idemsafety.com
HYGIECODE – Coded Non Contact – Type: CMC

Coded Magnetic Actuation

Switching Tolerance up to 14mm

Will operate with most Safety Relays

IP69K

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

Specified to 105C

but designed to work up to 125C.

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
Proof Test Interval (Life):
47 years
M,T,F:
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
100 MooMs
Insulation Resistance:
500R Ms
Recommended setting gap:
8mm
Switching Distance:
Sae 10mm Close
Terminolage:
20mm Open

Temperature Range:
-25 to +105C.
Endurance Protection:
IP69K IP67
Shock Resistance:
IEC 68-2-27 11ms 30g
Body Material:
Stainless Steel 316 Mirror polished finish (Ra4)
Vibration Resistance:
IEC 68-2-6 10-55 Hz 1mm
Cable Type:
PVC 6 or 6 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
--|---|---|---
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

www.idemsafety.com
HYGIECODE - Coded Non Contact - Type: CMC-F

Coded Magnetic Actuation

Switching Tolerance up to 14mm

Stainless Steel 316 housing

IP69K

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

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

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

Standards

EN1088 IEC 60847-5-3 EN 60204-1

Safety Classification and Reliability Data:

Switching Reliability

EN 954-1

ISO 13849-1

EN 60204-1

SIL 3 depending upon system architecture

Safety Data - Annual Usage

PHFd 2.5 x 10^6

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:

Target to target

Saa 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/min. to 1000mm/s

Body Material

Stainless Steel 316 Mirror polished finish (Ra4)

Temperature Range

-25 to +105C

Endurance Protection

IP66K / IP67

Shock Resistance

IEC 68-2-27 11ms 30g

Vibration Resistance

IEC 68-2-6 10-55 Hz, 1mm

PVC 6 or 8 core 6mm O.D.

Cable Type

Mounting Bolts

2 x M4

Mounting Position

Any

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

www.idemsafety.com

Switch

ACTUATOR

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

Available without LED if required

140101 Female QC Lead M12 Female 5m. 8 way

140102 Female QC Lead M12 Female 10m. 8 way
Coded Magnetic Actuation  

Switching Tolerance up to 14mm

Will operate with most Safety Relays

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

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.

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**Standards**
- EN1088
- IEC 60947-5-3
- EN 60204-1
- ISO 13849-1
- EN62061
- EN 954-1
- UL508

**Safety Classification and Reliability Data:**
- Switching Reliability: $3.3 \times 10^{10}$ operations at 100mA load
- EN 6054-1
- ISO 13849-1
- EN 62061
- Safety Data - Annual Usage: 6 cycles per hour / 24 hours per day / 365 days
- Proof Test Interval (Life): 47 years
- MTTF: 470 years
- Safety Channel 1 NC: 24V dc Max. Rating 0.2 A
- Safety Channel 2 NC: 24V dc Max. Rating 0.2 A
- Safety Channel 3 NO: 24V dc Max. Rating 0.2 A
- Minimum switched current: 0V dc 1mA
- Dielectric withstand: 250V ac
- Insulation Resistance: 100 Mohms
- Recommended setting gap: 5mm
- Switching Distance: 5mm Close
- Switching Frequency: 1Hz maximum
- Approach speed: 2000mm/s to 1000mm/s
- Temperature Range: -25 to +105°C
- Endurance 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

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**Quick Connect (QC) M12 8 way Male Plug (Pin view from switch)**

<table>
<thead>
<tr>
<th>Switching Lead Colours</th>
<th>Circuit (Actuator Present)</th>
<th>Output Types</th>
<th>Solid State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td>Auxiliary NO or NC</td>
<td>200mA Max. 24Vdc</td>
<td></td>
</tr>
<tr>
<td>Brown</td>
<td>Auxiliary NO or NC</td>
<td>200mA Max. 24Vdc</td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td>Safety NC2 +ve</td>
<td>200mA Max. 24Vdc</td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>Safety NC1 +ve</td>
<td>Supply 24Vdc +/- 10%</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>Safety NC1 -ve</td>
<td>200mA Max. 24Vdc</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>Supply +24Vdc</td>
<td>200mA Max. 24Vdc</td>
<td></td>
</tr>
<tr>
<td>Blue</td>
<td>Supply 0Vdc</td>
<td>200mA Max. 24Vdc</td>
<td></td>
</tr>
</tbody>
</table>

---

Available without LED if required

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

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www.idemsafety.com
**HYGIEECODE - 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 hysteresis - 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.

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**Stainless Steel Housing**
Quick Connect M12 versions fitted with 250mm (10") cable
Tested IP69K (high pressure housing with detergent at 80°C and 100psi)
Sensitivity at recommended 4mm setting
Can be flush mounted

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

**Standards**
EN1088 IEC 61947-5-5 EN 60204-1
ISO 13849-1 EN62061 EN 954-1 U1L508

**Safety Classification and Reliability Data:**
Switching Reliability: $3.3 \times 10^{10}$ operations at 100mA load
EN 605-1 up to Category 4 with Safety Relay
ISO 13849-1 up to PLa depending upon system architecture
EN 60601 up to SIL3 depending upon system architecture
Safety Data - Annual Usage: 6 cycles per hour / 24 hours per day / 365 days
Proof Test Interval (Life): 47 years
MTTlfh: 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: 8mm Close (Target to target)
Tolerance to misalignment: 5mm in any direction from 5mm setting gap
Switching frequency: 1.0 Hz maximum
Approach speed: 200mm/min. to 1000mm/s
Body Material: Stainless Steel 316 Mirror polished finish (Ra4)
Temperature Range: -25°C +85°C
Enclosure Protection: IP68K IP67
Shock Resistance: IEC 68-2-27 11ms 30g
Vibration Resistance: IEC 68-2-6 10-55Hz 1mm
Cable Type: PVC 6 or 8 core 6mm O.D.
Mounting Bolts: M4 Tightening torque 1.0 Nm
Mounting Position: Any

<table>
<thead>
<tr>
<th>Sales Number</th>
<th>Type Lead</th>
<th>Cable Length</th>
<th>Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>134001</td>
<td>Female QC Lead</td>
<td>M12 Female 5m.</td>
<td>2M</td>
</tr>
<tr>
<td>134002</td>
<td>Female QC Lead</td>
<td>M12 Female 10m.</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>134003</td>
<td>Hygiene code RMC</td>
<td>5M</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>134004</td>
<td>Hygiene code RMC</td>
<td>QC-M12</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>134005</td>
<td>Hygiene code RMC</td>
<td>QC-M12</td>
<td>2M</td>
</tr>
<tr>
<td>134006</td>
<td>Hygiene code RMC</td>
<td>QC-M12</td>
<td>5M</td>
</tr>
<tr>
<td>134007</td>
<td>Hygiene code RMC</td>
<td>QC-M12</td>
<td>10M</td>
</tr>
<tr>
<td>134008</td>
<td>Hygiene code RMC</td>
<td>QC-M12</td>
<td>3NC</td>
</tr>
<tr>
<td>134105</td>
<td>Hygiene code RMC</td>
<td>2M</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>134106</td>
<td>Hygiene code RMC</td>
<td>5M</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>134107</td>
<td>Hygiene code RMC</td>
<td>QC-M12</td>
<td>3M</td>
</tr>
<tr>
<td>134108</td>
<td>Hygiene code RMC</td>
<td>QC-M12</td>
<td>3NC</td>
</tr>
</tbody>
</table>

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

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72