Providing Machine Safety for YOU at Work

Innovation
Ingenuity
Excellence

IDEEM
Providing Machine Safety for YOU at Work

Designed and manufactured in the United Kingdom

www.idemsafty.com
IP69K Stainless Steel Safety Interlock Switches

- Designed specifically for Food Processing, Packaging, Pharmaceutical and Petro-Chemical Industries
- Suitable for CIP/SIP Cleaning
- Fully Stainless Steel
- IP69K and IP67
- Tested to 80°C and 80 bar chemical washdown

Hygiecam MK1-SS

- Compact with 22mm fixing centres.
- Mirror polished finish.
- Suitable for most applications.
- Small 30mm wide x 99mm long.
- Replaceable contact blocks.
- Provides 8 actuator entry points.
- Standard or flexible actuator.

Hygiecam K-SS

- Universal Fitting - established footprint.
- Suitable for most general applications.
- 52mm wide x 99mm long.
- Replaceable contact blocks.
- Head rotates to give 4 actuator entry points.
- Standard or flexible actuator options.

Hygiecam KM-SS

- Slim fitting suitable for most industrial applications.
- Mirror polished surface finish (Ra4).
- 42mm wide x 118mm long.
- Head rotates to protect head assembly and prevent tampering with switch.
- Provides 8 actuator entry positions.

Ryanlock KL1-SS

- Solenoid locking.
- Provides 4 actuator entry points.
- Rotatable head.
- Compact 63mm wide x 143mm long.
- 2 lock monitoring safety contacts.
- LED 1: Status of solenoid applied power.
- LED 2: Status of guard lock.

Hygielock KL3-SS

- Solenoid locking.
- Power solenoid to unlock.
- Choice of 24V 110V or 230V operation.
- Slim body 48mm wide x 177mm long.
- Suitable for all industry applications.
- 2 LEDs for solenoid and lock status.
- Standard or flexible actuator options available.

Hygielock KLT-SS

- Solenoid locking.
- Integral high security RFID (unique or master coding).
- Mirror polished finish (Ra10) Stainless Steel 316.
- Will fit on 73mm fixing centres.
- M23 Quick Connector available for ease of installation.
- 2 manual override points.
- LED diagnostics for Solenoid, Lock and faults.

Stainless Steel 316 Grab Wire Safety Rope Switches

- GLHL-SS
- GLHD-SS
- GLHR-SS

The Guardian Line range of switches in Stainless Steel 316 housings has been designed as a Heavy Duty Rope Pull switch system to protect long conveyors up to 250m with just one switch. Distances up to 5km can be covered by connecting multiple switches together. The fixing holes are under the cover of the switch to prevent food trap and contamination areas. ATEX explosion proof versions are available (see below).

GLS-SS

- The GLS-SS is a general duty Stainless Steel grab wire safety rope switch designed to protect conveyor lengths up to 80m using just one safety rope switch.

GLM-SS

- The GLM-SS is the latest addition to the range. A medium duty Stainless Steel grab wire safety rope switch designed to protect conveyor lengths up to 30m using just one safety rope switch.

Stainless Steel 316 Rope Switches - ATEX models

- GLS-SS-Ex
- GLHL-SS-Ex
- GLHD-SS-Ex
- GLHR-SS-Ex
IP69K Stainless Steel 316 Non Contact Interlock Switches

HYGIECODE and HYGIEMAG RANGE

- Operates in temperatures up to 105°C
- Suitable for CIP/SIP high-pressure cleaning
- IP69K or IP67
- Operates with most Safety Relays to achieve up to PLe/Cat.4 (ISO13849-1)

HYGIECODE Versions:  
- Coded Actuation
- Solid State Parts
- Survives Shock and Vibration
- LED Indication

HYGIEMAG Versions:  
- High Power Magnetic Sensing
- Up to 1A Current Switching

MMC-H and MMR-H

- Miniature fitting with industry standard 22mm fixing.
- M4 clearance holes - suitable for mounting with hexagonal head bolts.
- Coded Switch sensing: 10mm.
- Magnetic Switch sensing: 10mm.
- Suitable for food splash/contact zones.

SMC and SMR

- Small stainless steel 316 housing.
- Compact 50mm long with 22mm fixing hole centres.
- Coded Switch sensing: 14mm.
- Magnetic Switch sensing: 12mm.
- Suitable for food splash zones.

SMC-F and SMR-F

- Small stainless steel 316 hygienic housing.
- Rear fixing holes no visible food traps.
- Compact 50mm long with 22mm fixing hole centres.
- Coded Switch sensing: 14mm.
- Magnetic Switch sensing: 12mm.
- Suitable for food splash/contact zones.

SMC-H and SMR-H

- Small S/Steel 316 hygienic housing.
- Can be mounted with hexagonal head bolts to prevent food traps.
- Universal fitting 22mm fixing.
- Coded Switch sensing: 14mm.
- Magnetic Switch sensing: 12mm.
- Suitable for food splash/contact zones.

LMC and LMR

- Slim fitting with a narrow profile for flush mounting.
- Can be mounted unobtrusively.
- Mirror polished finish.
- 88mm long x 25mm wide.
- Coded Switch sensing: 14mm.
- Magnetic Switch sensing: 12mm.
- Suitable for food splash zones.

CMC and CMR

- Compact stainless steel 316 hygienic fitting.
- Slim fitting 20mm wide - can be fitted in narrow channels.
- Coded Switch sensing: 14mm.
- Magnetic Switch sensing: 12mm.
- Suitable for food splash zones.

CMC-F and CMR-F

- Compact and narrow.
- Mounting holes at the rear - no food trap areas.
- Slim fitting 20mm wide can be fitted in narrow channels.
- Coded Switch sensing: 14mm.
- Magnetic Switch sensing: 12mm.
- Suitable for food splash/contact zones.

RMC and RMR

- Barrel type cylindrical fitting with M30 thread.
- 45mm adjustment length.
- Easy to install and set.
- Suitable for all applications.
- Coded Switch sensing: 10mm.
- Magnetic Switch sensing: 10mm.
- Suitable for some food contact zones.

WMC and WMR

- Robust 32mm wide housing.
- High tolerance to misalignment.
- Stainless steel housing with mirror polished finish.
- Coded Switch sensing: 14mm.
- Magnetic Switch sensing: 12mm.
- Suitable for food splash zones.

Hygienic Non Contact Explosion Proof Safety Switches in Stainless Steel 316

- IEC Ex
- ATEX

WM1-Ex

- Zones 0, 20, 1, 21, 22
- Gas and Dust

WM2-Ex

- Zones 1, 21, 2, 22
- Gas and Dust

CM1-Ex

- Zones 1, 2, 22
- Gas and Dust

CM2-Ex

- Zones 1, 21, 2, 22
- Gas and Dust

CM3-Ex

- Zones 1, 2, 22
- Gas and Dust

RM-Ex

- Zones 1, 2, 22
- Gas and Dust

LM-Ex

- Zones 1, 2, 22
- Gas and Dust
Plastic Non Contact Safety Switches

**IDECODE and IDEMAG RANGE**

- Industry established universal fittings - suitable for all applications
- Specified to work up to 80°C, IP67 or IP69K, High specification plastic housings
- Operates with most Safety Relays to achieve up to PLe/Cat.4 (ISO13849-1)

### IDECODE Versions:

- **MINIATURE FITTING:** Miniature fitting - suitable for all small guarding applications. Cable exit left or right options available. Supplied with hygienic screw cap covers. Sensing: 10mm.
- **SMALL FITTING:** Universal fitting with an established industry footprint - suitable for most general industry applications. Withstands environments of high humidity and wash down conditions. Sensing: 14mm.
- **EURO FITTING:** Popular European fitting suitable for all industry applications. Narrow fitting for flush mounting. Unique long life high power switching. Suitable for high pressure hosing IP69K. Sensing: 14mm.
- **COMPACT FITTING:** Slim design - suitable for all industry applications. Easy to install within narrow frame sections - can be installed unobtrusively. Suitable for high pressure hosing IP69K. Sensing: 14mm.
- **WIDE FITTING:** Suitable for all industry applications. LED indication. No moving parts - survives shock and vibration. Suitable for high pressure hosing IP69K. Sensing: 14mm.

### IDEMAG Versions:

- **MINIATURE FITTING:** Miniature fitting - suitable for all small guarding applications. Cable exit left or right options available. Supplied with hygienic screw cap covers. Sensing: 12mm.
- **SMALL FITTING:** Universal fitting with an established industry footprint - suitable for most general industry applications. Withstands environments of high humidity and wash down conditions. Sensing: 12mm.
- **EURO FITTING:** Popular European fitting suitable for all industry applications. Narrow fitting for flush mounting. Unique long life high power switching. Suitable for high pressure hosing IP69K. Sensing: 12mm. Available with LED if required.
- **COMPACT FITTING:** Slim design - suitable for all industry applications. Easy to install within narrow frame sections - can be installed unobtrusively. Suitable for high pressure hosing IP69K. Sensing: 12mm.
- **WIDE FITTING:** Suitable for all industry applications. No moving parts - survives shock and vibration. Suitable for high pressure hosing with IP69K ingress protection. Sensing: 12mm.

### Gate Bolts for Non Contact Switches

**Type: GBN-1**

- Suitable for:
  - Coded type switches: SPC, SMC, SMC-H, LPC, LMC.
  - Magnetic type switches: SPR, SMR, SMR-H, LPR, LMR.
  - RFID type switches: SPF-RFID, LPF-RFID and LPZ-RFID.

**Type: GBN-3**

- Suitable for:
  - Coded type switches: SPC, SMC, SMC-H, LPC, LMC.
  - Magnetic type switches: SPR, SMR, SMR-H, LPR, LMR.
  - RFID type switches: SPF-RFID, LPF-RFID and LPZ-RFID.

Stainless Steel Guide

The door latch is held magnetically in the GBN-3 Gate Bolt. A push or pull operation is required to release.
**Tongue Interlock Safety Switches**

**Mechanical Interlock Switches**

**INCH-1**
- Miniature plastic housing:
  - 25mm x 55mm with 17mm fixing centres.
  - 8 Actuator entry positions - designed with a rotatable Stainless Steel 316 head.
  - 2 pole contact blocks.
  - IP67 ingress protection.

**INCH-3**
- 8 Actuator entry positions - designed with a rotatable Stainless Steel 316 head.
- 3 pole contact blocks.
- Choice of 3 conduit entries.
- Plastic housing with IP67 ingress protection.
- 25mm wide 75mm long 22mm fixing.

**IDIS-1**
- Compact yet robust fitting suitable for all small guard applications.
- Suitable for food processing and petrochemical industries.
- 8 Actuator entry positions - rotatable head.
- 3 pole or 4 pole contact blocks.
- 32mm wide 97mm long 17mm fixing.

**INCH-1**
- 8 Actuator entry positions - designed with a rotatable Stainless Steel 316 head.
- 3 pole contact blocks.
- Choice of 3 conduit entries.
- Plastic housing with IP67 ingress protection.
- 25mm wide 79mm long 22mm fixing.

**INCH-3**
- 8 Actuator entry positions - designed with a rotatable Stainless Steel 316 head.
- 3 pole contact blocks.
- Choice of 3 conduit entries.
- Plastic housing with IP67 ingress protection.
- 25mm wide 75mm long 22mm fixing.

**IDIS-1**
- Compact yet robust fitting suitable for all small guard applications.
- Suitable for food processing and petrochemical industries.
- 8 Actuator entry positions - rotatable head.
- 3 pole or 4 pole contact blocks.
- 32mm wide 97mm long 17mm fixing.

**K-15**
- 4 Actuator entry positions - designed with a rotatable head.
- Compact body with 3 conduit entries.
- 54mm wide 86mm long 40mm fixing.
- Plastic or Stainless Steel 316 head options.
- IP67 ingress protection rating.

**KP**
- ALSO AVAILABLE IN EXPLOSION PROOF VERSION
- Compact plastic body/stainless steel head locking switch for medium to heavy duty guards.
- Provides 2NC safety contacts and 2NO auxiliary contacts or LED indication diagnostics.
- 8 Actuator entry positions - rotatable head.
- Solenoid locking.
- 46mm wide 160mm long 30mm fixing.

**KM**
- ALSO AVAILABLE IN EXPLOSION PROOF VERSION
- Robust die cast housing. Slim fitting designed for where impact resistance is required.
- Available with die cast or stainless steel head.
- 8 Actuator entry positions - rotatable head.
- 40mm x 118mm x 30mm fixing. IP67 ingress protection.

**Mechanical Interlock Switches with Soleniod Guard Locking**

**KL1-P**
- Small plastic body with universal 40mm mounting.
- 4 Actuator entry positions - rotatable head.
- Guard locking for small to medium guard doors.
- Solenoid locking.
- Stainless steel head for robustness - suitable for most industrial applications.
- 63mm wide 143mm long 40mm fixing.

**KLP**
- P2L Versions (Power to Lock)
- RR Versions (Rear Release)
- Compact plastic body/stainless steel head locking switch for medium to heavy duty guards.
- Provides 2NC safety contacts and 2NO auxiliary contacts or LED indication diagnostics.
- 8 Actuator entry positions - rotatable head.
- Solenoid locking.
- 46mm wide 160mm long 30mm fixing.

**KLM**
- Compact plastic body/stainless steel head locking switch for medium to heavy duty guards.
- Provides 2NC safety contacts and 2NO auxiliary contacts or LED indication diagnostics.
- 8 Actuator entry positions - rotatable head.
- Solenoid locking.
- 46mm wide 176mm long 30mm fixing.

**KLP**
- Available with die cast or stainless steel head.
- 46mm wide 160mm long 30mm fixing.

**KLTM-RFID**
- Integral high security RFID coded die-cast metal locking safety switch with soleniod locking.
- Traditional tongue type interlock with added RFID sensor for unique actuator coding.
- Exceptionally rugged and solid body with 2 lock monitoring safety contacts.
- 105mm wide 150mm long 73mm fixing.

**Mechanical Hinge Interlock Safety Switches**

**HC-1**
- Plastic bodied.
- Stainless steel head.
- Fits to the hinged axis of small guard doors.
- Available with solid stainless steel shafts or hollow shafts.
- 2 safety contacts.
- 2NC or 1NC 1NO.
- 25mm wide 77mm long 18mm fixing.

**HC-3**
- Plastic bodied.
- Stainless steel head.
- Fits to the hinged axis of medium sized guard doors.
- Available with solid stainless steel shafts or hollow shafts.
- 2NC 1NO contacts.
- 25mm wide 103mm long 18mm fixing.

**HC-SS**
- Fully Stainless Steel 316 body and head.
- Robust hinge cam for fixing to the hinged axis of guard doors.
- Available with solid stainless steel shafts or hollow shafts.
- 2NC 1NO contacts.
- 30mm wide 98mm long 22mm fixing.

**IDIS-2**
- Plastic body with Stainless Steel actuator.
- Designed to fit to hinged axis of guard doors.
- Available with 2NC 1NO, 3NC or 1NC 1NO snap action contacts.
- 31.5mm wide 65mm long (exc. actuator).
- 22mm fixing.

**P2L Versions (Power to Lock)**
- 2N and 1NO 1NO snap action switches.
- Available with solid stainless steel shafts or hollow shafts.
- 25mm wide 77mm long 18mm fixing.

**RR Versions (Rear Release)**
- A manual escape release is provided to enable quick release of the switch lock in case of emergency.

**NEW**
- AVAILABLE WITH DIE-CAST OR S/STEEL HEAD

**KLM-P2L**
- Available with die cast or stainless steel head.
- 46mm wide 160mm long 30mm fixing.

**HC-1**
- Plastic bodied.
- Stainless steel head.
- Fits to the hinged axis of small guard doors.
- Available with solid stainless steel shafts or hollow shafts.
- 2 safety contacts.
- 2NC or 1NC 1NO.
- 25mm wide 77mm long 18mm fixing.

**HC-3**
- Plastic bodied.
- Stainless steel head.
- Fits to the hinged axis of medium sized guard doors.
- Available with solid stainless steel shafts or hollow shafts.
- 2NC 1NO contacts.
- 25mm wide 103mm long 18mm fixing.

**HC-SS**
- Fully Stainless Steel 316 body and head.
- Robust hinge cam for fixing to the hinged axis of guard doors.
- Available with solid stainless steel shafts or hollow shafts.
- 2NC 1NO contacts.
- 30mm wide 98mm long 22mm fixing.

**IDIS-2**
- Plastic body with Stainless Steel actuator.
- Designed to fit to hinged axis of guard doors.
- Available with 2NC 1NO, 3NC or 1NC 1NO snap action contacts.
- 31.5mm wide 65mm long (exc. actuator).
- 22mm fixing.
RFID and Stand Alone Non Contact Safety Switches

**Non Contact RFID with Unique or Series Coding.**
- Designed to provide high security on guard doors.
- Diagnostic LED - indication of safety circuits closed.
- Connect up to 20 switches in series.
- Connect to other switches and E-Stops in series.

**High functional safety to ISO13849-1.**
- Connects to most safety relays.
- 2NC safety outputs.
- 1NO auxiliary output for indication.

**RAMZSense RFID with Unique or Series Coding**
- Provides high security on guard doors.
- Maintains PLe/Cat.4 to ISO13849-1 even with switches connected in series.
- Connect up to 20 switches in series.
- Connect to other switches/E-Stops in series.

**PSA**
- Compact housing - fits on 40mm frame sections.
- Maintains PLe/Cat.4 to ISO13849-1.
- 2NC Relay safety outputs - high current switching 3A.
- Available in Plastic or Stainless Steel housings (IP69K).
- Connect up to 20 switches in series.
- Able to connect other switches and E-Stops in series.
- Contact feedback circuit (manual or auto).
- Auxiliary output for indication of door open.

**MSA StandAlone Coded Non Contact Safety Interlock Switches**
- Standalone switches for direct machine control.
- Diagnostic LED - indicates safety circuits closed.
- Compact housing - fits on 40mm frame sections.
- Maintains PLe/Cat.4 to ISO13849-1.
- Connect up to 20 switches in series.
- Connect to other switches and E-Stops.

IDEEM VIPER Series SCR-i Safety Relays

**FEATURES:**
- Dual force guided relay output contacts with high current outputs up to 6A.
- Up to PLe/Cat.4 to ISO13849-1 and SIL3 to EN62061.
- Single or dual channel input.
- Feedback loop for monitoring contactors.
- Short circuit and earth fault monitoring.
- Instant or delayed contacts.

**LED DIAGNOSTIC FEATURES:**
- All relays include a combination of the below diagnostics. (See full catalogue)
  - Power  Power applied to device
  - Reset  Reset Circuit is closed
  - CH1  External switch input 1 closed
  - CH2  External switch input 2 closed
  - K1  Internal relay safety output contacts closed
  - K2  Internal relay safety output contacts closed
  - K3  Internal relay safety output contacts closed
  - K4  Internal relay safety output contacts closed

**VIPER SCR-i PRODUCT SELECTION CHART**

<table>
<thead>
<tr>
<th>Base Units</th>
<th>Supply Voltage</th>
<th>Manual/Auto Reset</th>
<th>Single/Dual Channel</th>
<th>Instant Output Contacts</th>
<th>Time Delay Output Contacts</th>
<th>Time Delay Range</th>
<th>Diagnostic LEDs</th>
<th>Mounting Width (mm)</th>
<th>ISO13849-1 PL (up to)</th>
<th>EN62061 SIL (up to)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCR-21-i</td>
<td>24V dc/ac</td>
<td>M or A</td>
<td>S or D</td>
<td>2NC 1NO</td>
<td>-</td>
<td>-</td>
<td>6</td>
<td>-</td>
<td>22.5</td>
<td>PLe</td>
</tr>
<tr>
<td>SCR-31-i</td>
<td>24V dc/ac</td>
<td>M or A</td>
<td>S or D</td>
<td>3NC 1NO</td>
<td>-</td>
<td>-</td>
<td>6</td>
<td>-</td>
<td>22.5</td>
<td>PLe</td>
</tr>
<tr>
<td>SCR-31P-i</td>
<td>24V dc/ac</td>
<td>M or A</td>
<td>S or D</td>
<td>7NC 3NO</td>
<td>-</td>
<td>-</td>
<td>6</td>
<td>-</td>
<td>22.5</td>
<td>PLe</td>
</tr>
<tr>
<td>SCR-73-i</td>
<td>24V dc/ac</td>
<td>M or A</td>
<td>S or D</td>
<td>3NC 1NO</td>
<td>-</td>
<td>-</td>
<td>6</td>
<td>-</td>
<td>45.0</td>
<td>PLe</td>
</tr>
<tr>
<td>SCR-31-42TD-i</td>
<td>24V dc/ac</td>
<td>M or A</td>
<td>S or D</td>
<td>3NC 1NO</td>
<td>4NC 2NO</td>
<td>0 to 30 secs</td>
<td>8</td>
<td>45.0</td>
<td>PLe/PlD</td>
<td>SIL3/SIL2</td>
</tr>
</tbody>
</table>

**SEU-31-i**
- SEU-31-i
  - 24V dc/ac
  - M or A
  - N/A
  - 3NC 1NO
  - -
  - 3
  - 22.5
  - PLe
  - SIL3

**SEU-31TD-i**
- SEU-31TD-i
  - 24V dc/ac
  - M or A
  - N/A
  - -
  - 3NC 1NO
  - 0 to 30 secs
  - 3
  - 22.5
  - SIL3/SIL2
  - SIL3/SIL2

Notes:
- NC contacts are closed when safety relay is energised - machine is able to start.
- NO contacts are closed when safety relay is de-energised - machine stopped or stopped.
SKORPION Trapped Key Interlocking with Key Exchange

 AVAILABLE IN STAINLESS STEEL 316 OR DIE-CAST (Mirror Polished Finish)

ISOLATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISB1</td>
<td>Available with Stainless Steel or Die-Cast Key Barrel. 25A 660V 4-Pole 40A 660V 4-Pole</td>
</tr>
<tr>
<td>ISB2</td>
<td>Available with Stainless Steel or Die-Cast Key Barrel. 63A 660V 4-Pole 100A 660V 4-Pole</td>
</tr>
<tr>
<td>ISP</td>
<td>Available in Stainless Steel or Die-Cast. 63A 660V 4-Pole 100A 660V 4-Pole</td>
</tr>
</tbody>
</table>

KEY EXCHANGE SYSTEM

SS-KE-NS4

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available with Stainless Steel or Die-Cast. Currently available with: 1 Key Trapped and up to 5 Keys Released (non-sequential)</td>
</tr>
</tbody>
</table>

BOLT INTERLOCKS (not suitable for guard access) - available in Stainless Steel 316 or Die-Cast with Mirror Polished Finish

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-BS</td>
<td>Available in Stainless Steel or Die-Cast.</td>
</tr>
<tr>
<td>SS-BD-11</td>
<td>Available in Stainless Steel or Die-Cast.</td>
</tr>
</tbody>
</table>

HANDLE INTERLOCKS (Single Key) - available in Stainless Steel 316 or Die-Cast with Mirror Polished Finish

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-HS</td>
<td>Available in Stainless Steel 316 or Die-Cast with Mirror Polished Finish.</td>
</tr>
<tr>
<td>M-HS-C</td>
<td>Available in Stainless Steel 316 or Die-Cast with Mirror Polished Finish.</td>
</tr>
</tbody>
</table>

HANDLE INTERLOCKS (Dual Key) - available in Stainless Steel 316 or Die-Cast with Mirror Polished Finish

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-HD-11</td>
<td>Available in Stainless Steel 316 or Die-Cast with Mirror Polished Finish.</td>
</tr>
<tr>
<td>M-HD-C-11</td>
<td>Available in Stainless Steel 316 or Die-Cast with Mirror Polished Finish.</td>
</tr>
</tbody>
</table>

TONGUE INTERLOCKS (Single Key)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-TS</td>
<td>Available in Stainless Steel 316 or Die-Cast with Mirror Polished Finish.</td>
</tr>
</tbody>
</table>

TONGUE INTERLOCKS (Dual Key)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-TS</td>
<td>Available in Stainless Steel 316 or Die-Cast with Mirror Polished Finish.</td>
</tr>
</tbody>
</table>
SKORPION Trapped Key Interlocking with Key Exchange

AVAILABLE IN STAINLESS STEEL 316 OR DIE-CAST (Mirror Polished Finish)

INTERLOCKING WITH CONTROL ISOLATION

SS-TS-CB

KEY TRAPPED –

Various actuator options.

EXPLOSION PROOF INTERLOCKING WITH CONTROL ISOLATION - Stainless Steel 316 or Die Cast (Mirror Polished Finish)

SS-TS-CB-EX

KEY TRAPPED –

TONGUE INTERLOCK SINGLE KEY WITH CONTACT BLOCK
Available in STAINLESS STEEL 316 or DIE CAST with Mirror Polished Finish

- Single Tongue Interlock with 2NC 2NO Contact Block - 1/2” NPT
- Single Tongue Interlock with 3NC 1NO Contact Block - 1/2” NPT
- Single Tongue Interlock with 2NC 2NO Contact Block - M20
- Single Tongue Interlock with 3NC 1NO Contact Block - M20

PYTHON Belt Alignment Switches

AVAILABLE IN STAINLESS STEEL 316 OR DIE-CAST

- Available with M20 and 1/2” NPT fixing.
- 35mm Short Roller
- 35mm Long Roller
- 50mm Roller

Gate Bolts for Interlock Switches

Available in Stainless Steel or Die Cast Aluminium

Type: GBL-1
Shown fitted with KLM switch. For solenoid locking tongue switches with optional extra rear handle. Suitable for: KLP, KLM, KLM-RR and KL4-SS.

Type: GBA-1
Suitable for KM tongue interlock switch.

BISON Solenoid Locking & RFID Gate Bolt with Multi-Functions

Available in two versions:
Both in Stainless Steel. Options of LED indication, I/O button, request button and emergency stop button.
Version 1: Any combination of above four options.
Version 2: Combination of any two of the above four options.
Guardian Line Series - Grab Wire Safety Rope Switches

Designed in heavy duty robust die-cast metal and able to survive external or internal use the Guardian Line Range has the ability to protect conveyors up to 200m with just one switch (GLHD).

Distances up to 2km can be achieved by connecting less than 20 switches.

A 2-colour LED ensures switch status can be seen easily from a distance.

LED status: Steady Green with Flashing Red (Stop) or Steady Green with Steady Red (Stop).

The GLHL or GLHR can be used for lengths up to 100m using just one switch, or can be used to complement the GLHD version at each end of the rope span.

The fixing holes are under the cover of the switch to prevent food trap and contamination areas.

Explosion Proof Versions

GLS-Ex
GLHD-Ex

IDEM Patented Tensioner/Gripper System and Rope System Accessories

RELIABLE CONNECTIVITY: Tensioning of the rope is achieved by the use of IDEM’s patented Tensioner/Gripper accessory. Traditional clamp systems are difficult to tension and adjust and frequent re-tensioning or maintenance is often required.

Rope Kits up to 126m. Contains Rope, Eyebolts and Tensioner/Gripper.

The Tensioner thimble allows immediate, accurate and final tensioning of the rope, whilst viewing the tension marker through the viewing window of the rope switch.

For systems up to 50m a Quick Link clamp is provided at one end of the rope for easy connection to either a safety spring or switch eyebolt.

Stainless Steel Mounting Bracket Suitable for all IDEM Guardian Line Rope Safety Pull Switches.

Flexible Roller Eyebolt with Adjustment

Flexible Roller Eyebolt with Nuts no Adjustment

Pigtail Eyebolt Stainless Steel available in 114mm or 154mm length.

Standard Eyebolt Stainless Steel or Galvanised available in 84mm or 130mm length.

Rope Tensioner/Gripper Stainless Steel or Galvanised

Universal Pulley

Safety Spring - Stainless Steel

LED-various options
MGL Non Contact RFID Locking Switch

Heavy Duty or Medium Duty holding force versions available.
Available in Stainless Steel 316 (with Stainless Magnet), robust Plastic or Die-Cast Metal.
Operates with most Safety Relays to achieve up to PLe/Cat.4 (ISO13849-1).
RFID Master Coded or Unique Coding.

The extremely popular MGL range of Non Contact RFID Coded switches has been developed in order to provide and maintain a high level of functional safety whilst providing a reliable magnetic door interlock. Flexibility for holding force is provided by the provision of 2 different switch sizes to cover all applications.

Safety Limit Switches in Stainless Steel, Die-Cast or Plastic Bodies

<table>
<thead>
<tr>
<th>HLM-SS Stainless Steel</th>
<th>IP69K</th>
<th>EN50051</th>
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</thead>
<tbody>
<tr>
<td>IEC60947-5-1 ● EN50041 Housings ● Die Cast IP67 ● Stainless Steel IP69K ● AC15 A300 230V 3A ● Rotary or Linear Actions ● M20 or 1/2” NPT Entries ● High Mechanical Life - over 5 Million Operations 2NC 1NO ● 3NC ● 2NC 2NO ● 3NC 1NO ● 4NC</td>
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<td>Explosion Proof Versions are available please see website or full catalogue.</td>
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<td>Ex iIC T6 (-20 ≤ Ta ≤ +60°C) Gb</td>
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<tr>
<td>Ex db T85C (-20 ≤ Ta ≤ +60°C) Db</td>
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<tr>
<td>IEC, EEx</td>
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<tr>
<th>HLM Die-Cast Metal</th>
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<tr>
<td>IEC60947-5-1 ● EN50047 Polyester Housings Rotary or Linear Actions M20 or 1/2” NPT Entries High Mechanical Life - over 10 Million Operations AC15 A300 240V 3A -25C +80C</td>
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<tr>
<td>2NC 1NO</td>
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<td>2NC 2NO</td>
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<td>Snap Block Side or Bottom Cable Exits</td>
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</tbody>
</table>

LSPS Plastic Body | EN50047 |

LSPM (Plastic Body) and LSMM (Die Cast Body) |

Micro Switches

To complement our range we now stock a wide range of the most popular micro switches including Pin Plunger, Roller Lever Panel Mount types, Short and Long Hinge Lever, etc. For the full range please consult the website or the full catalogue.

Emergency Stop Switches in Plastic, Die Cast and Stainless Steel

| ESL-SS(P) Stainless Steel IP69K | High Temperature Wash Down 2 or 3 Conduit Entries ● 3 or 4 Pole Contacts 2NC 1NO 2NC 2NO or 3NC 1NO |
| ESL-SS Plastic IP67 | 2 Conduit Entries 3NC or 2NC 1NO contacts |
| ESL-SS(L) Plastic IP67 | 4 Conduit Entries ● 4NC 2NO Contacts 2 Colour LED ● IP67/IP69K (S/Steel) ATEX Explosion Proof versions available |
| GLES Plastic Body | 2 or 3 Conduit Entries ● 2NC 2NO or 3NC 1NO ● IP67/IP69K (S/Steel) ATEX Explosion Proof versions available |
| GLES-SS Plastic Body | 2 or 3 Conduit Entries ● 2NC 2NO or 3NC 1NO ● IP67/IP69K (S/Steel) ATEX Explosion Proof versions available |

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Fax: (886) 431 7064
E-Mail: salesusa@idemsafety.com

www.idemsafety.com

IEC60947-5-1
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IEC, EEx

LPS Plastic Body | EN50047

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2NC 1NO

2NC 2NO or 3NC 1NO

3NC or 1NC 1NO Snap Block Side or Bottom Cable Exits

IEC, EEx

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