

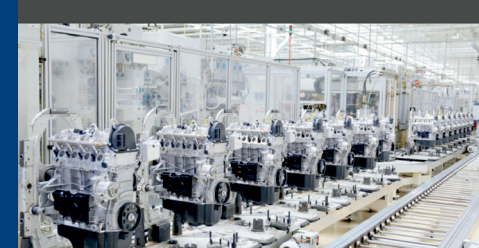
Concrete block/building material manufacturers



Food Production



Automation



Dairy Plants



Bottling Plants



Pharmaceutical



Mechan Controls

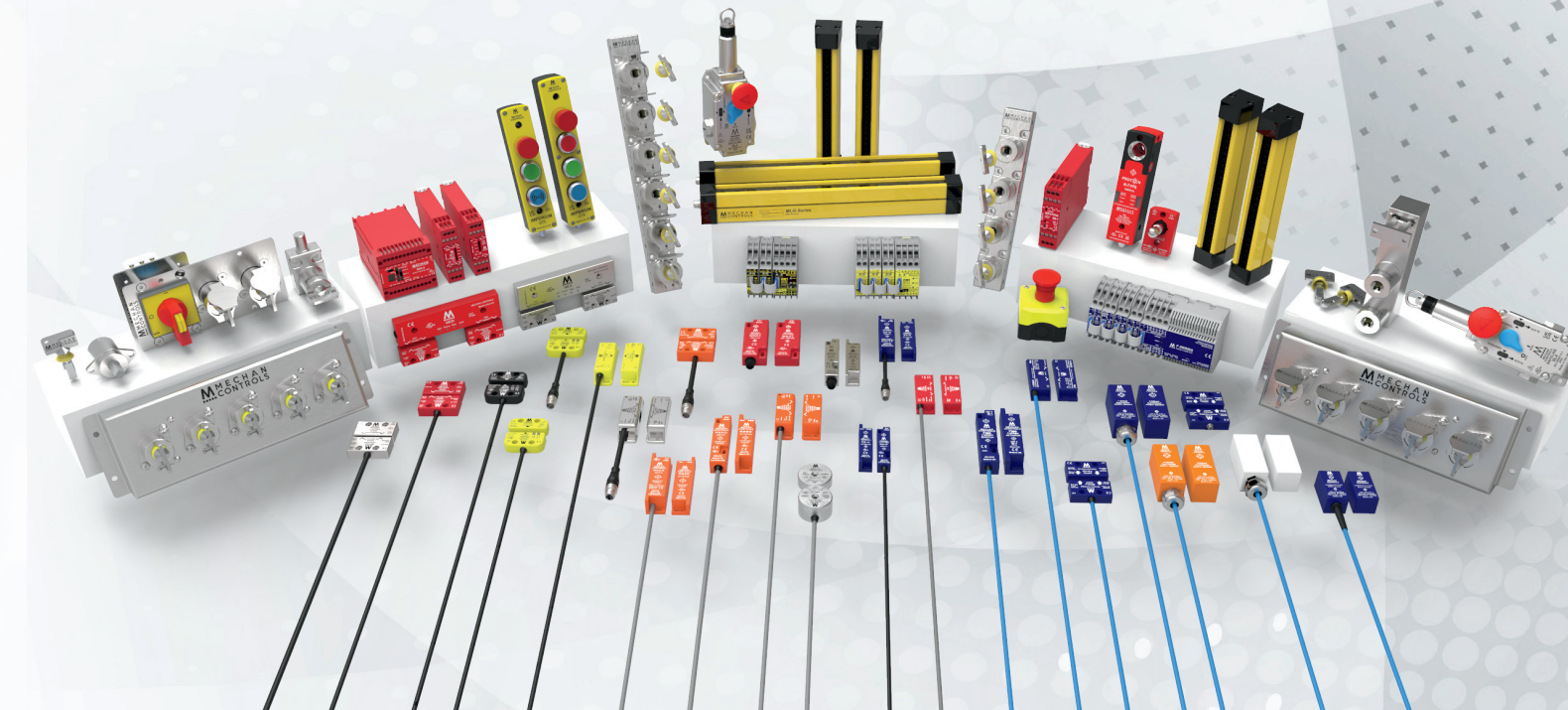
Mechan Controls was established in the early 1970's to design and manufacture machine guard safety products for the harsh environments of the can making industry. With the development of the first RFID electronic non-contact safety switch in 1972, the company now has over 50 years of experience and hundreds of thousands of installations world-wide that prove the safety and reliability of Mechan safety products. With a dedicated technical team, Mechan Controls prides itself on its innovative approach to machine guard safety solutions, continuously developing new products and improving the existing range. The range includes products that are suitable for use in all machine guarding environments and have been well tried and tested in various industries such as concrete block

manufacturing with high levels of dirt, dust and vibration and food processing where high temperatures and high pressure wash down procedures are the norm. To support our world-wide customer base, Mechan now has agents and distributors throughout the world and is able to provide bespoke solutions as well as the standard product range shown in this catalogue. Anywhere there is a need for machineguard safety products, Mechan Controls aims to provide the most reliable and therefore cost effective solution to your requirements. With an in-house design team, Mechan Controls will continue to invest in new technologies to ensure that our customers have the very best and latest in machine guarding products.

PPS process industrial partner solution automation

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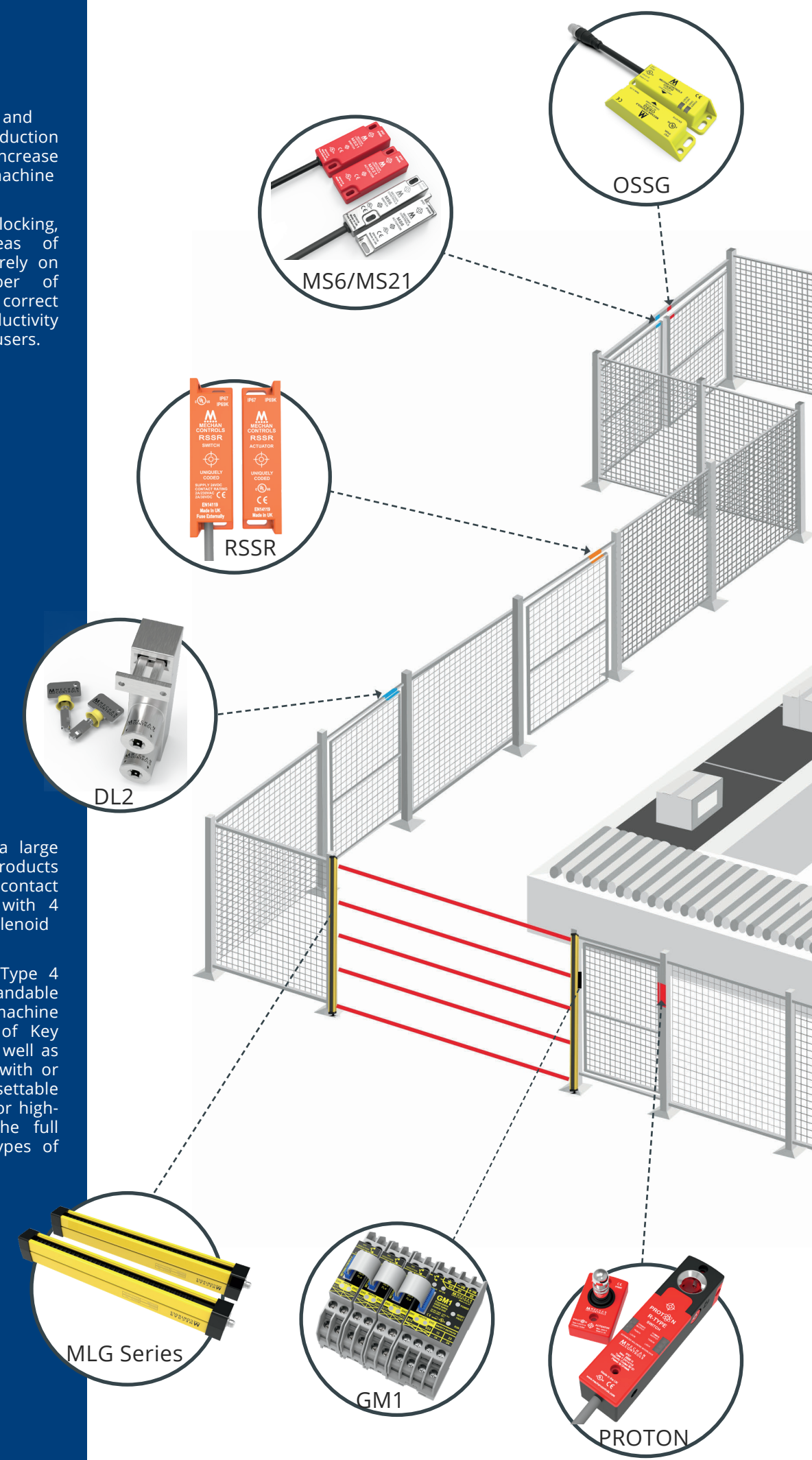
Product Brochure

MECHAN CONTROLS LTD

Products

The growing demand for reliability and efficiency in the modern production environment has led to a large increase in the need for various types of machine guarding. Mechan Controls' range of products cater for non-locking, locking and non-guarded areas of machines. This means you can rely on their products for a number of applications, ensuring the correct guarding is used to maximise productivity and more importantly, protect its users.

range of products cater for non-locking, locking and non-guarded areas of machines. This means you can rely on their products for a number of applications, ensuring the correct guarding is used to maximise productivity and more importantly, protect its users.



Mechan Controls manufactures a large range of machine guard safety products ranging from coded magnetic non-contact safety switches to RFID OSSD with 4 Billion uniquely coded switches, solenoid mechanical interlocks with high-level code. Type 4 Light curtains, and a range of Expandable safety relays to suit most machine guarding requirements. Variety of Key exchange locking mechanisms as well as Grab wire and a control station with or without a uniquely coded resettable facility. Whether you have a low or high-risk application, Mechan has the full range of products to suit all types of Machine guarding applications.

Type 4 and Multi Beam Light Curtains

MLG-Series

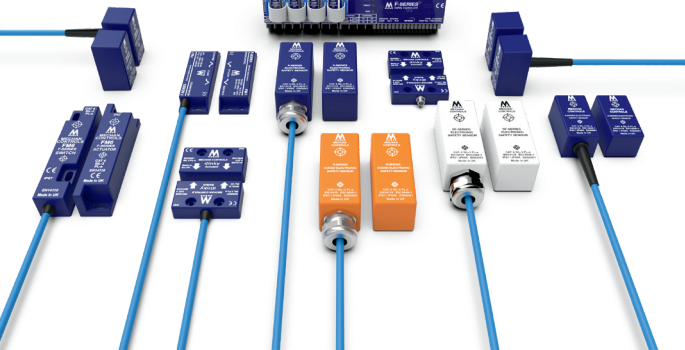


MLG-Series light curtains and grids use infra-red technology. A curtain of infra-red light is projected across the dangerous area. Intrusion into this curtain by a person, or part of a person, will be detected by the system. This will cause safety output signals to be generated which will stop the dangerous motion of the machine. MLG systems are fully self-monitoring and meet worldwide requirements for safeguarding devices used on industrial machines. The emitter and receiver units together generate a curtain of infra-red light between them. This curtain is mounted in such a position in relation to the dangerous parts of a machine that a person or part of a person approaching those dangerous parts must first penetrate the curtain. This penetration is detected by the light curtain system and, by means of its output switching devices, the light curtain system causes the dangerous parts to go to a safe state.

- Production Line Safety
- Perimeter Guarding
- Finger, Hand and Body Protection
- 200mm-1800mm Protection Height
- Compact, Rugged Design
- Design & Manufacture In The UK
- Advanced Diagnostic Display
- 0.3m - 20m Detection Range
- Cat4 SIL3 PL-e
- Easy to Install



RFID Safety System



F-Series

- CAT 4 SIL3 PL-e Safety System
- Modular Control Unit
- RFID Safety Switches - One Master Code or 4 Billion Code
- Monitor up to 30 Switches / E-Stops
- Unique Code Safety Switches (EN14119 High Code)
- Multi-Gate Monitoring
- Tamper-Proof Safety Switches
- Long Term Proven Reliability
- Modular System
- Monitor up to 30 Guards and / or E-Stops
- Guard Status Indication
- Simple to Install and Expand
- No Programming Required

The F-SERIES, is one of the most reliable versions of Mechan's unique RFID safety system which now has a record of over 30 YEARS reliability in all types of industrial applications. Together the switches and control module provide a safety system capable of meeting the international safety standard requirements CAT4 SIL3 PL-e that can be used in the harshest environments, providing long term reliability.

Grab Wire Range

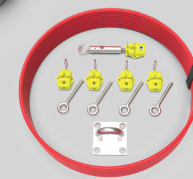
Safeline 4



The SafeLine4 grabwire is a cable/E Stop button operated system that can be installed where no physical guarding is present on conveyors, providing constant emergency stop access. This SafeLine 4 is made from 316 stainless steel and is suitable for external use, applications where there are hygiene requirements and other situations where a level of corrosion proof is required. Its outputs 2 N/C contacts can be wired into any Mechan safety Relay to fulfil Cat4 PLe required

by ISO13849-1 safety standard. Mechan Safeline has 2NC Safety Contacts + 2NO Auxiliary Contacts or 3NC Safety Contacts +1NO Auxiliary Contacts with a positive mode mechanism, by Pulling the Grab wire the safety Contact will open and Auxiliary contacts will Close, Safeline can only be reset by twisting the blue reset button, this will Fulfil the requirement of IEC 60947-5-5 and ISO 13850.

- Dual Tension Status Indication
- 100m Cable Span
- Positive Mode Mechanism
- Mushroom E-Stop optional
- Patented Tension Kit Design
- 3NC+1NO or 2NC+2NO Contacts
- 316 Stainless Steel Housing

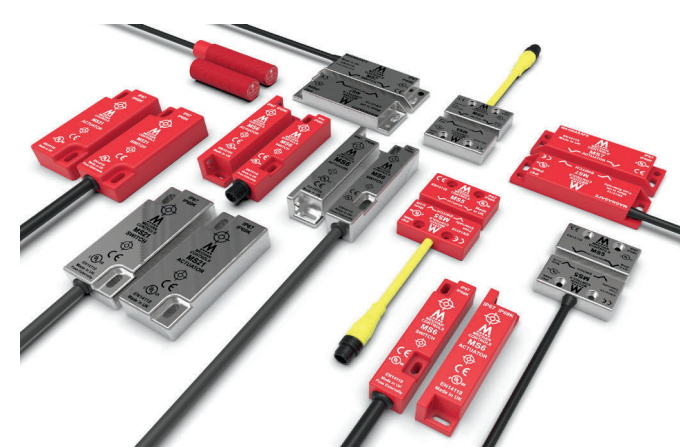


Magnetically Operated safety switches

Magnasafe



- Non-Contact Operation
- IP67 / IP69K Fully Sealed, Washdown
- ABS or 316 Stainless Steel
- Max 2A Switching Capability (Heavy Duty)
- Large Range of Housings / Fixtures
- Quick Disconnect Options

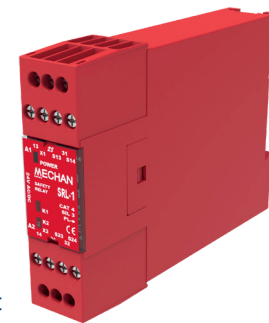


The Mechan MAGNASAFE switches are magnetically operated safety switches. Easy to install and maintain, the MAGNASAFE switches are fully encapsulated non-contact switches ideal for long term for use in harsh / wet environments.

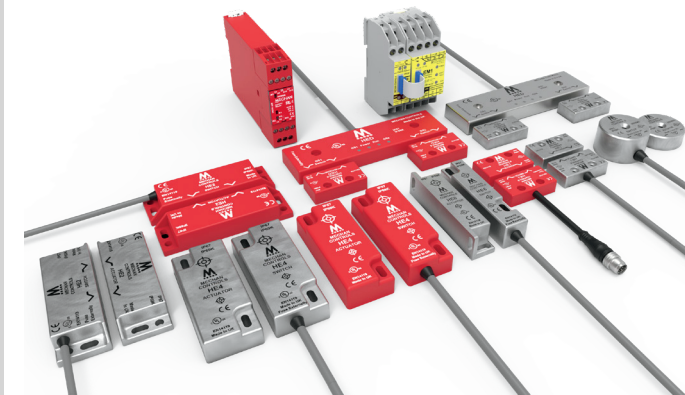
SRL1 Safety Relay

Combine the Magnasafe Range with our SRL1 Safety Relay

- LED Diagnostics
- Dual Channel Inputs
- Dual Channel Output + Auxillary
- Automatic / Manual Monitored Reset



Solid state non-contact safety switches



HE-Series



- Solid State Coded Magnetic Switches
- Dual Colour Indication on the Switch
- Unique Double Door Safety Switches
- Shock and Vibration Proof
- IP67 & IP69K Fully Sealed, Wash down

Mechan HE safety switches are magnetically coded, solid state non-contact safety switches for use in machine guarding applications. Non-contact operation makes the HE switches easy to install and tolerant to misalignment. The solid state design is even more tolerant to shock and vibration, and provides single point switching which makes for a simpler and more reliable machine guard interlock. The additional security of the coded magnetic operation along with fully sealed IP67/IP69K rating make these switches ideal for use in wet or dusty and harsh environments. The HE safety switches have been designed to operate with the SCU-1 or EM1 Safety Control Unit.

Applications

- Food Processing
- Dairies
- Bottling Plants
- Pharmaceutical
- Concrete Block / Building Material Manufacture

S-Type

- Tamper-Proof RFID Safety
- Switches Single Generic Code
- (Master Code) 10mm Switching
- Distance Guard Status Indication
- Quick Disconnect Option (M12)



S-Type are master coded RFID (Radio Frequency Identification) safety switches with volt free contact outputs. They offer protection against manipulation, interference and defeat making them ideal for use in high risk applications. These tamper-proof safety switches feature agent resistant plastic enclosures encapsulated with epoxy resin for a protection level of IP67 and IP69K, ideal for use in wet, dusty and harsh environments



Uniquely Coded RFID Safety Switches

R-Series



- 2 Amp Safety Output Rating for RSSG(ABS) & RSSR
- Standalone Non-Contact Operation
- Volt Free Contact Outputs
- IP67 & IP69K Fully Sealed
- 4 Billion Unique Codes Available
- EN14119 Type 4 High Level Code
- LED Guard Status Indication
- Large Range of Housings / Fixtures

R-SERIES are uniquely coded RFID (Radio Frequency Identification) safety switches with volt free contact outputs. They offer protection against manipulation, interference and defeat making them ideal for use in high risk applications. These tamper-proof safety switches feature agent resistant plastic or 316 stainless steel enclosures encapsulated with epoxy resin for a protection level of IP67/IP69K, ideal for use in wet, dusty and harsh environments. Mechan's unique coding technology allows for 4 billion possible codes. Should either part be lost or damaged, the teach-in facility allows for unlimited re-teaching.



Uniquely Coded OSSD RFID Safety Switches



- Uniquely Coded RFID with OSSD Outputs (Yellow)
- Coded Magnetic with OSSD Outputs (Black)
- Maintain PL-e when Connected in Series
- Advanced LED Diagnostics
- External Device Monitoring (Optional)
- 2 Amp Safety Output Rating
- Stainless Steel Version



O-Type

The O-Type range combines 50+ years of experience designing and manufacturing machine guard safety products with the latest in safety technology. Their unique design means the O-Type switches can be connected in series maintaining PL-e status.

Expandable Safety Relay

EM-Series Modular Safety Relay

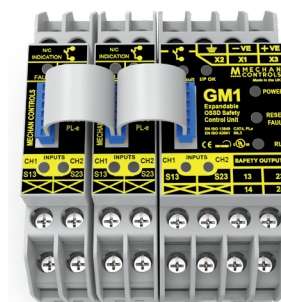


- CAT4 SIL3 PL-e Safety System
- Monitor up to 20 Dual Channel Devices
- Expandable using the ESM Module
- Guard Status Indication
- Advanced Fault Diagnostics

No Programming Required

GM1 & GSM

- CAT4 SIL3 PL-e Safety System
- Monitor up to 20 Dual Channel Devices
- OSSD Safety inputs
- Expandable using the GSM Module
- Guard Status Indication
- Advanced Fault Diagnostics
- No Programming Required



The GM1/GSM is an expandable safety control unit designed to monitor multiple Mechan Controls Lightcurtains (MLG-Series) or O-Type safety switches. The master control unit (GM1) can monitor one pair of MLG-Series Lightcurtain (transmitter & receiver) and each additional Light curtain set can be monitored by adding an additional GSM extender module. However the ESM can be added as well to monitor any volt free contact switch or E/Stop. This system can also be used to safely monitor other Mechan Controls products such as O-Type safety switches. **This system does not require programming!**

Uniquely Coded RFID Interlock

Proton



- Advanced Solenoid Interlock (Power to Unlock)
- Ball Style Actuator for Improved Misalignment
- Uniquely Coded RFID Actuation (4 Billion Codes)
- Maintain PL-e when Connected in Series
- External Device Monitoring (Optional)
- Advanced LED Diagnostics
- 2000 Newton Hold Force

The Proton advance solenoid interlock has been designed for use on machines where hazardous conditions persist even after the machine has been switched off. The robust design and heavy-duty solenoid can withstand up to 2000N hold force and energise under a lateral load. The internal specifications meet the requirements for CAT4, SIL3 and has been designed to maintain PL-e even when connected to a safety relay or PLC. The Proton R-Type offers protection against manipulation, interference and defeat making them ideal for use in high risk applications.



Control Station



Imperium

- 3 or 4 way button control station
- LED illuminated buttons
- Quick Disconnect or Pre-Wired
- Maintain PL-e when Connected in Series
- Tag in & Tag out function

The Imperium control station is a multi-functioning station with the ability to perform multiple functions, such as start, stop, reset and emergency stop. The Imperium can be fitted to any machine and wired directly into the safety control unit to give the user full control. This will Comply with the latest IEC 60204 standard, which makes the Imperium control station ideal for any machine.

Key Exchange

MK-Safe



- Multiple product variants Cast in 316 Stainless
- steel Over 50,000 unique key/lock variations
- Load size of 10KN
- Key Box comes with a variety of lock barrels
- Modular Key Box ranges from 3 to 8 lock barrels

MK-Safe is the easy to configure trapped key interlocking system. It is suitable for various industrial safety applications. The casing of MK-Safe range is 316 stainless steel which is designed and built to withstand harsh industrial environments. The coding system has 50,000+ different key codes available. The master coding system can be provided as an option.

