



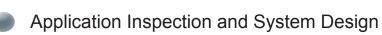


ENGINEERED SOLUTIONS

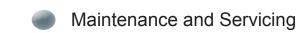


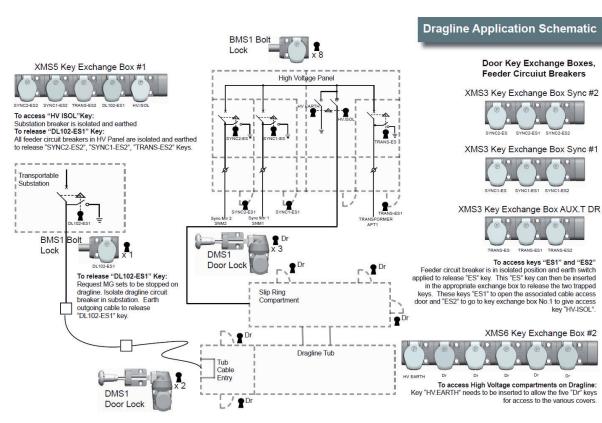
Full System Service from

Let Ikon Engineered Solutions take care of your interlocking needs offering a full system service using Fortress Interlocks.



Installation



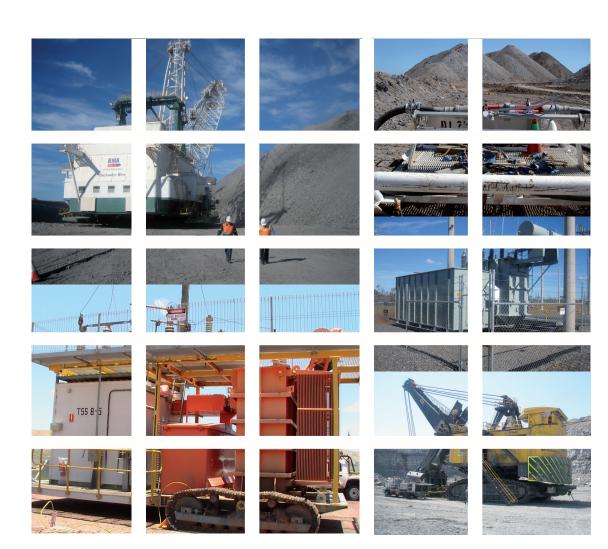




Ikon Engineered Solutions working in partnership with Fortress Interlocks, protecting plant and personnel in heavy industry and switchgear.

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www.fortressinterlocks.com

mGard Range Overview Total Access & Control

Gard

mGard is the premier range of modular robust trapped key interlocks for heavy duty applications. Trapped key interlocking is a tried

and tested method of mechanically safeguarding dangerous machines and hazardous processes.

Power/Control Isolation

Identify the energy sources to be isolated and/or any hazard that cannot immediately be isolated such as; heat, pressure, radiation or machine rundown time.

Power isolation

- Mechanical Bolt Interlock
- Bolt Interlock with Limit Switch
- Bolt Interlock with Switch
- Breaker Lock

Control isolation Key Switches

- Solenoid Controlled Key Switch
- ATEX Key Switch
- ATEX Solenoid Controlled Key Switch
- Solenoid Controlled Key Switch Unit
- Electronic Time Delay Unit
- Knob and Key Operated Switch Control Unit



Key Exchange

Identify the type and number of access points.

- Key Exchange Units
- Key Exchange Units with Switch

Because of the modular arrangement of **mGard** both key exchange and door lock units can easily be extended with an extension module (XMA), for instance when doors are added to the safeguarded area or machine.

The Fortress Trapped Key System allows the safeguarding of potentially hazardous areas without the need for wiring.

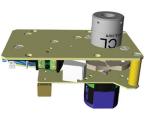
All Fortress Interlocks rotary switches have European, Canadian, Chinese and North American approvals.



ODL



Electronic Time Delay Unit



Solenoid Controlled Key Switch



BM

Mechanical Bolt Interlock

Key Switch

Single Door Interlock

Lock and Kev Specifications

Fortress locks have over 200,000 different lock combinations. Besides the standard basic (CL) it is possible to have a master series (ML) lock. The ML lock which can be operated by a special cut master key (MLK-SUGS) that fits any mastered lock in a specific mastered lock series. For ease of use, all Fortress locks provide key insertion in two orientations.

Lock and key engravings

Each different key combination is allocated with an engraved code onto the lock and key, of up to maximum 30 characters (3 lines of 10 characters). This engraving code is used to identify locks and keys and is recorded in a database for continuous cross reference. Required engraving details are therefore to be provided with each other.

Door Locks and Actuators

Switch Control Unit

Identify the type of access point; part body or full body access doors with or without the use of personal safety keys (to prevent accidental lock in).

- Single Door Interlocks •
- Multiple Door Interlocks ٠
- Fixed Actuator ٠
- Handle Operated Actuator
- Spring Loaded Handle Operated Actuator
- Self Aligning Actuator
- Compressible Actuator

DM-F **Fixed Actuator**

DM-H



DM-A



DM-S Self Aligning Actuator



Multiple Door Interlock



Standard O

Dustcover Options



CLIS Lock Standard CL lock with stainless steel dustcover





as shown below.

