

HV/LV/MV Switchgear

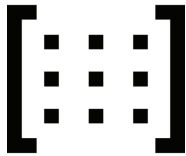
Application Guide



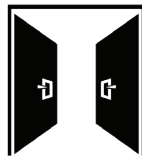
Risks

Regular switchgear maintenance ensures that equipment is operating efficiently and without faults. When the system operates correctly, personnel remain safe, equipment is not damaged, and the risk of fire or arch flash is greatly reduced.

Things to consider when evaluating the need for an interlock solution in your switchgear operations:



How many access points?



Full Body Access?



Partial Body Access?

Implementing a trapped key interlock solution into switchgear maintenance operations ensures that personnel cannot access potentially dangerous areas without the switchgear being put in a safe state. A well design interlock solution will also ensure that the system operates correctly and there is no chance of, for example, switching two incoming feeders on to a common bus bar.

Many switchgear OEMs provide provisions for interlock solutions. Working with interlock experts on the coordination of multiple OEMs equipment will guarantee your interlock solution is designed specific to that equipment and operates according to your safety needs.

Where Trapped Key Solutions can be Found

Switchgear processes where trapped key interlock solutions are especially critical for the protection of personnel and equipment:

- Earthing systems
- HV/MV/LV hazards
- Controlling the supply from multiple incomers
- Switching of incomers to common busbars
- Switching of UPS systems & generators to common busbars

Implementing a trapped key interlock solution into these critical processes will minimize downtime due to mis-followed operations ensuring your facility is back up and operating, saving money and lives!

Benefits of Trapped Key Interlocking

Why use a trapped key interlock safety solution?

To **PROTECT** personnel from hazards ensuring predetermined sequences of operations are followed.

To **PREVENT** loss of operations and setback due to equipment damaged by mis-followed operations.

To **PROVIDE** risk control and peace of mind; eliminating human error and ensuring everyone has the right to be safe at work!

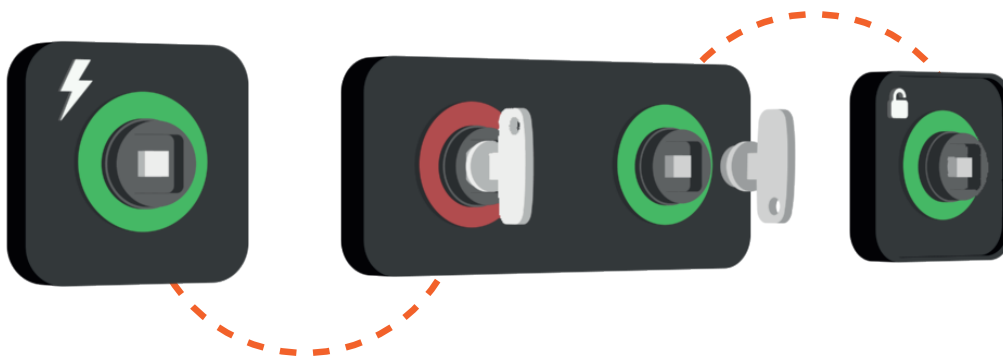
A trapped key interlock solution is;

INTEGRATABLE onto new equipment or retrofit into existing procedures and equipment.

CUSTOMIZABLE to your specific safety requirements through sequenced design and or with custom product.

RELIABLE and robust safety solution that can withstand harsh environments, maintaining the integrity of the safety solution.

How A Trapped Key Interlock Solution Operates



Power is isolated. The key can be removed and taken to the key exchange.

The initiating key from step 1 is inserted into the key exchange, re-releasing the access key(s) and trapping the initiating key.

Access key(s) can be taken to the appropriate access door(s) and personnel can safely perform maintenance and operations.

Power can only be restored when maintenance is complete, trapped key solution is followed in reverse, returning all access keys, and releasing initiating key to restore power.

No Compromise on Safety

Our team will partner with you to design your safety interlock solution scheme, build a bill of materials, and coordinate with multiple equipment OEMs to ensure your switchgear safety solution is implemented in the field with peace of mind; mitigating risk and eliminating human error.



CONTACT US TODAY
to discuss your next HV/LV/MV SWITCHGEAR project.



sales@castell.com



+44 020 8200 1200

