

Enclosure containing two IG432 control boards and power supply

IG432x2

The IG432x2 houses two IG432 control boards within the one enclosure. Offering two independent door interlocks systems and space saving advantages.

INTERGUARD IG432 allows 2, 3 or 4 doors to be interlocked to restrict or control entry to and from areas that need to be secured against two or more doors being open simultaneously. Any kind of door, roller shutter, traffic bollard or gate can be interlocked using the IG432. Use any type of electronic lock is catered for, as is integration with other systems including access control and fire alarms.

Benefits and Features

- Two Interlocking systems for 2, 3 or 4 doors
- Space saving advantage
- Enclosure dimensions 400 x 300 x 100mm
- Integral 12vdc 5A power supply
- Secure or non-secure interlocking
- Status indication at each door
- Fire alarm 1 input releases all doors
- Fire alarm 2 input disables interlocking
- Breach relay output if a door is forced open
- Breach relay output if a door remains open after use
- Breach relay output if a request to release remains for an extended period
- Dwell time adjustable 0, 5, 10 & 20 secs
- Door Open Too Long 20s, 1min, 10mins & off
- Lock down function for privacy etc
- 2 / 3 door with common door function
- UKCA and CE marked, ROHS compliant
- Manufactured in the UK



Example below of Interlocking scenario



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Breach Relay Conditions

There are 2 breach relays on the IG432, Breach 1 (normally energised, i.e. will operate if power is lost) and Breach 2 (normally de-energised). If a door is forced, left open too long or a request button pressed for too long a period then Breach 1 relay deenergises. If there is a fire alarm input both breach relays will operate.

Power Supply

The IG432 is fitted with an integral 12vdc 5A power supply. This will normally be capable of supplying power for the interlock controller, the indications and provide power for up to 4 door locks up to 1A each. The power supply also includes battery connections which allow for the connection of a lead acid battery for backup purposes.

The IG432 has two main modes of operation

Mode 1. Keep all doors closed but unlocked then locks the other doors if a door is opened.

Mode 2. Keep all doors closed and locked and release the relevant door on request only if available to be released i.e. all other doors are locked.

In Mode 2 operation, the method of request to release can be any access control system, keypad etc.. or in the case of non-secure interlocking this can be straight forward push buttons.

Fire alarm inputs allow the operation of the IG432 to be interrupted. One option will release all doors, the other keeps doors locked but allows more than one door to be released at a time.

Red and Green operational indicators are provided at each door. These provide invaluable feedback to users.

A "Lock Down" function allows two of the doors in the interlock to be locked at the press of a button (S1726S) to provide privacy facilities for change rooms etc. The same function also caters for integration with other automated systems often found in clean room environments.

A further special feature of the IG432 is the ability to form a 2 / 3 door combination interlock which is effectively two separate interlocks, one being a 2 door and the other a 3 door, however the two interlocks share a common door. i.e. There are only 4 doors in total.