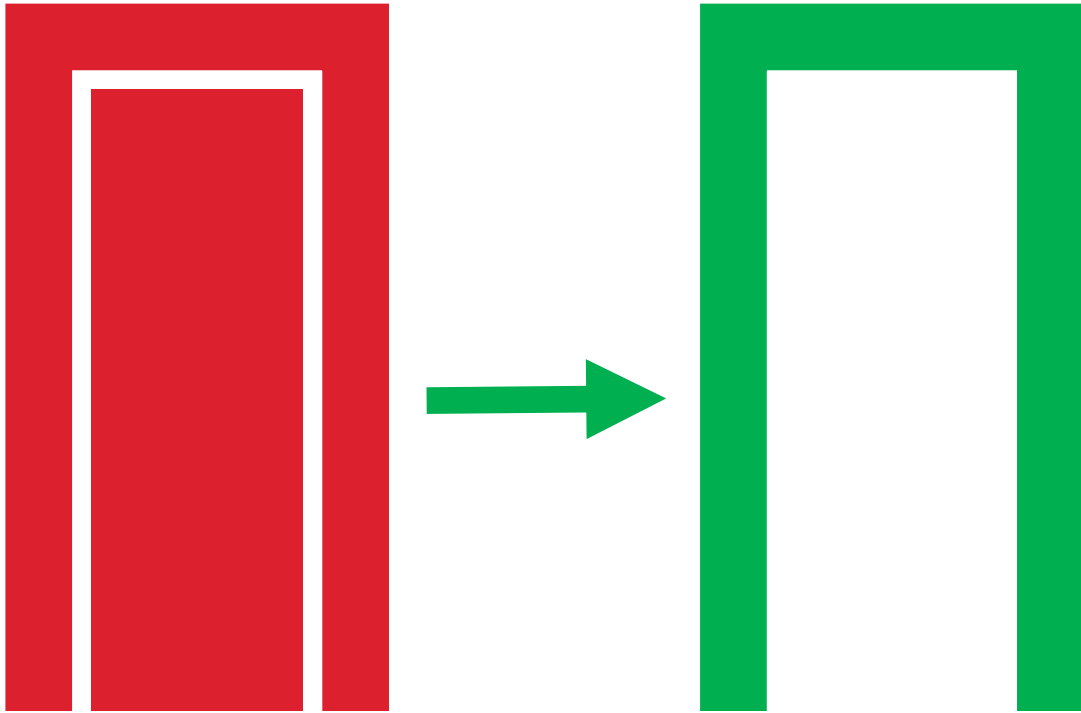


# 3 S SECURITY SYSTEMS



## DOOR INTERLOCKING



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**Safety**  
**Security**  
**Stability**



"Locking it the right way."

WE ARE YOUR ONE STOP SOLUTION PROVIDER FOR ALL SAFETY AND SECURITY NEEDS

# Our Quality For Your Safety

## **Door Interlock System**

The door interlock system is used to prevent the simultaneous opening of airlock/change room doors. The system thus aids in minimizing the microbial, particulate contamination and also the disturbance of area conditions.

The door controllers are one of the key integrated components for door interlock systems. The 8-bit microcontroller is the heart of the system along with other advanced electronics. It is built to control one door in standalone mode and can interlock up to 12 doors when 12 controllers are connected in a network on the RS485 bus.

The controller logic ensures that the doors are normally closed and are locked. Unlocking any door causes the interlocked door to be incapable of being unlocked and hence prevents the simultaneous operation of doors.

**Multi-Level Logic** allows configuring the system to interlock the door with selected doors within the door interlock group. This logic allows simultaneous use of the change rooms and reduces hindrance to man movement.

### **Two Door Closed Mode:**

In this mode, both doors are locked using Electromagnetic Lock or Electric Door Strike. Access can be gained by pressing the push button switch. When the first door is opened the second door remains locked until the first door is closed again i.e. both the doors will not open simultaneously. Thereby preventing clean air contamination and saving air conditioning losses.

### **Two Door Open Mode:**

In this mode, both the doors are in normally closed condition by means of door closure but unlocked. By opening door-1, door-2 automatically gets locked and will not open till the first door is closed.

### **Flame proof Door Interlock:**

Such a system is specially designed for hazardous areas like Bulk drugs, API, etc. The system is provided with a flameproof enclosure. It has a Maintenance-free control panel with reliable and quickly available components. Only manual reset will enable emergency mode to disable the interlocking system as per safety norms.

### **Pass Box Interlock System:**

Pass boxes are used to transfer material for blending, granulation or sterilization in the manufacturing area and microbiology laboratory.

In some cases, equipment parts are also transferred through the pass boxes in sterile manufacturing areas.

Pass boxes help to prevent the airflow from one area to another while transferring the material. Only one door can be opened at a time.

# Indication and Alarms

The interlocking system can control two or more doors in a way that gives access to one door and not allowing to open any adjacent two doors simultaneously. Further if there is any malfunction we 3 S Security Systems have come up unique alarm system for create alert.



Red LED blink

Door is unlocked / kept open



Green LED steady

Door released



Red / Green LED blink

Emergency

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## Propped Door Alarm

The buzzer activates when the door is unlocked/open for more than 20 seconds – Intermittent beep

## Forced Door Alarm

The buzzer activates when the door is forced open without the operation of door release button – Continuous beep.

## Emergency Alarm

The buzzer activates when emergency situation is initiated – Intermittent beeps with indications.

# Application



Pharma Industry



Food Processing



Research Lab



Clean Room



ICU Room



API Plant



Chemical Plant



Gas Industry

# 3 S - Door Interlocking Specifications

## CONTROLLER FEATURES

- ⇒ User-friendly design with low installation expenditure.
- ⇒ Supports Maximum of 12 doors & 24 Push buttons.
- ⇒ Supports Maximum of 12 Emergency Stations.
- ⇒ After pressing request button relay must operate not more than 50 msec.
- ⇒ Relay operating time is 30 msec.
- ⇒ Auto close time is 7 sec or closure of door whichever is earlier.
- ⇒ Facility available to read feedback from Magnetic Lock.
- ⇒ Easy use Soft touch Tactile Membrane keypad & user-friendly programming options.
- ⇒ Fire integration is possible through fire alarm relay contact.
- ⇒ Supports Access control module interface.
- ⇒ Complete access data (optional)

## SPECIFICATION

- ⇒ Power Supply: 230V  $\pm$  10% 50 Hz single phase
- ⇒ Operating voltage: 12V D.C
- ⇒ Temperature: 0 to 55 Deg C
- ⇒ RH: 10 – 90%, Non Condensing
- ⇒ Enclosure Type: MS Box (Power coated)
- ⇒ Mounting: Wall Mounting

## Flameproof specification

- ⇒ Type of protection: Ex-d
- ⇒ Material: Cast Aluminum Alloy LM6
- ⇒ Flameproof: Zone 1 & 2,
- ⇒ GAS GROUP: IIA, IIB
- ⇒ Finish: Light Grey to Shade 631
- ⇒ Gasket: Neoprene
- ⇒ Cable Entry: 1/2 Nos. M16" ET Entry