



# Fire Shutter Controls and Accessories



**SECURITYDIRECT**  
ROLLER SHUTTERS • INDUSTRIAL DOORS • STEEL DOORS • SECURITY GRILLES

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# 1. Controls and Operation

All Fire Rated Roller Shutters are electrically operated and designed to close automatically in the event of a fire, forming an essential part of a building's fire protection strategy.

Every system is built with fail-safe control technology, ensuring the shutter performs reliably during both daily operation and emergency conditions.

Fire shutters can be operated through a range of control panels, switches, and sensors, depending on site requirements, the presence of a fire alarm system, and whether the shutter is installed over a means of escape.

## 2. Control Panels

Each fire shutter is supplied with a dedicated fire-rated control panel, which manages the motor, alarm interface, battery back-up, and safety features.

The type of control panel depends on the building's fire strategy and the level of integration required.

### 2.1. FCP Lite Audio Visual Panel

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The FCP-Lite is a basic audio-visual control panel which includes a 90dB sounder and is operated by either membrane buttons on the face of the control panel or by external controls.

Impulse functionality for use with safety devices or hold-to-run operation. Low voltage control circuit with delay timer of up to 196 seconds.

This control panel is not compatible with a sleep mode battery backup unit or a repeater panel.

## 2.2. FDCP01 CONTROL PANEL

### FDCP01 CONTROL PANEL



### FDCP01 REPEATER PANEL



The FDCP01 fire control panel designed to operate fire-resistant roller shutter doors fitted with a 230-volt tubular motor. While maintaining the function of everyday normal use, the FDCP01 provides an advanced warning in the event of a fire with a flashing visual warning and 98 dB sounder.

#### Key Features:

- Selectable fire signal, Normally open or Normally closed volt free contact
- Low voltage external controls
- Programmable auxiliary relay
- LED fault diagnostics
- Delay timer options (0-5 mins)
- Cyclic pulse and pause operation
- Compatible with 'repeater panel' for adjacent wall
- Auto close function
- Option for sleep-mode battery backup

The FDCP01 repeater panel cannot operate without the main FDCP01 control panel. The repeater panel is an extra audio-visual warning and is typically installed on the adjacent wall to ensure that personnel stood at either side of the fire door and warned that the fire shutter will be closing.

## 2.3. FCPP03 AUDIO CONTROL PANEL

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The FCP03 audio-visual control panel is designed to operate with both 230volt or 24volt DC tubular motors, or single-phase/three phased external industrial fire motors. This panel has the capability to connect a solenoid release unit, or 3rd party control system.

### Key Features:

- Large visual warnings and 103 dB sounders
- Easy to program using front panel buttons and display
- LED fault indicator & diagnostics
- Selectable fire signal, Normally open or Normally closed volt free contact
- Removable terminals for ease of connection
- Low voltage external controls
- Door closing methods of solenoid drop, drive down or two-stage closing
- Programmable auxiliary relays
- Programmable audio / visual delay timer prior to closing
- Matching repeater panel
- Internal (1.3Ahr) batteries to maintain panel in event of mains failure
- (Upgrade) ECU Option for a automatic re-open time after alarm reset

## 2.4. Frequently Asked Questions

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### **Q1. IS AN AUDIO-VISUAL CONTROL PANEL REQUIRED?**

An Audio-visual warning device shall be fitted to the door which acts immediately when the door begins to close automatically, as stated in EN 12604: 2017 + A1: 2020 (Section 4.9). An audio-visual control panel is legally required for door operating by 'gravity' or other 'self-closing mechanisms' as they shall not expose any person to being crushed or entangled to forces causing injury or damage. The operating speed of the door should not exceed 0.3m/s or the fire shutter impacting the human body or part of it should not exceed 200N.

Liability is solely on the buyer. The manufacturer always recommended an audio-visual warning device and the utilisation of the timer delay functionality – however, this is a matter of local risk assessment.

### **Q2. BUILDING CONTROL AUTHORITIES HAVE ASKED FOR A CLASSIFICATION REPORT**

The current UK Governments statutory guidance stated within 'Approved Document B' Volume 1, the 2029 amendments, regarding the fire safety provisions incorporates the removal of the national classification system for fire resistance (i.e. the previously acceptance of fire resistance doorsets tested to BS 476: Part 22: 1987 and declared as a 'FD30' doorsets for 30 minutes fire performance is no longer permitted). In anticipation of the shift to the European classification system, products such as doorsets are classified in accordance with EN 13501-2, are to be classified as 'E60' for 60 minutes, 'E120' for 120 minutes integrity performance (etc). As the manufacturer of the Flame Armour product range, we believe in a pro-active, transparent approach, as such the Classification Report No. 416674 is publicly available on our website.



## 3. Battery Back-Up Unit (BBU) – Tube Motors Only

All Tube Motor fire shutters require a Backup Supply, if the Mains Fails.

### 3.1. Battery Backup – Standard

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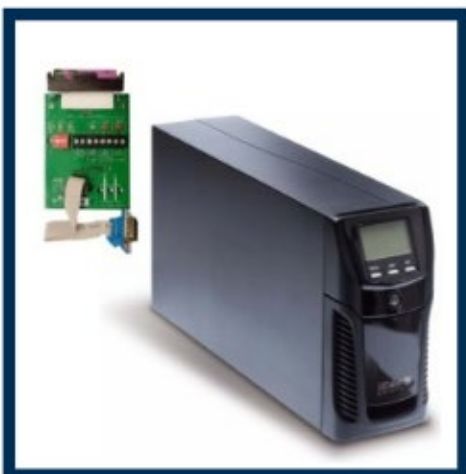


As a minimum requirement, any tubular motor fire shutter must be supplied with some form of battery backup (UPS) system. In the event of a fire, or if the mains supply is terminated, then the fire shutter must be able to operate a closed cycle without human intervention. This is only achievable with stored energy from a UPS.

A standard battery backup (UPS) device is only compatible with single-phase 240-volt motors and can provide approximately 4 hours of continual power to the fire-resistant roller shutter in the event of a power failure.

### 3.2. Battery Backup – Deluxe (Sleep Mode)

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Compatible with the FCP03, the uninterruptable power supply (UPS) feeds a constant reliable and filtered power. The sleep-mode function allows for a prolonged standby mode, due to draining a small amount of charge overtime. Therefore, the fire shutter can operate on stored energy for up to 30 days.

The fire alarm interface card (Required with CSL Sleep mode UPS) connects into the UPS and monitors the fire alarm signal directly. If a fault occurs on the fire alarm, then the card activates the UPS and can operate the fire shutter to open/close.



## 4. Switches and Accessories

### 4.1. Fixed Temperature Thermal Detector (Heat Detector)

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The United Kingdom Building Regulations state that if a fire-resistant roller shutter is installed on a 'means of escape' then it must be triggered by a localized heat detector (or fusible link). This sensor can be wired directly into the FPC03 audio-visual control panel so that upon thermally activating at 58°C, a 'close' signal will be sent to the control panel, and the fire shutter activate a close cycle. This is ideal for ensuring all persons have evacuated the building prior to the closure of the fire-resistant roller shutter.

### 4.2. Lockable, 'Test' & 'Reset' Push Button Station

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This device allows the trained user to isolate the control functionality locally; it also allows the user to undertake a controlled simulation of fire conditions. This push button station includes a 'reset' function which allows the user to test and then reset the control panel and fire-resistant roller shutter. This is ideal for fire shutters installed in schools, as the access to the fire shutters controls can be locked to stop unwanted operations.

### 4.3. Red Emergency & Green 'Door Release' Buttons

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The emergency 'Fire break glass' button and emergency 'Break glass switch', also known as break glass unit or exit button, can be connected to a FCP03 audio-visual panel.

These types of buttons are suitable for exit doors and emergency doors.

#### 4.4. Green "Emergency Open" Button

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The 'Emergency open' push button can be connected to the FCP03 audio-visual control panel and upon the button being pressed the fire shutter can be programmed to 'open'. Once pressed and the door opens for several minutes, then the FCP03 panel will begin a close cycle once more.

## 4.5. Red “Mushroom” Button

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The emergency ‘red mushroom’ button, which can be operated by palm or foot, can be connected to the FCP03 audio-visual control panel and upon the button being pressed the fire shutter can be programmed to open or close. Typically, utilized as emergency open buttons.