



flexibility is our strength

BIRMINGHAM GARAGE & INDUSTRIAL DOORS LTD
UNITS 3,10 & 12 GRIFFIN INDUSTRIAL ESTATE
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OPERATING AND MAINTENANCE MANUAL SAFETY, SERVICE & REPAIR

Fire Shutter – Electrically Operated

Insert address here

**PLEASE READ THIS INSTRUCTION BOOKLET
PRIOR TO OPERATING YOUR
ELECTRICALLY OPERATED FIRE SHUTTER**

**SHOULD YOU EXPERIENCE ANY
DIFFICULTY PLEASE CONTACT
OUR SERVICE DEPARTMENT**

NORMAL HOURS: 0121 559 8666

OUT OF HOURS EMERGENCY NUMBER:

07778 375310

Electrically Operated Fire Shutters

Standard Specification

Curtain: 0.9 mm (20g) x 75 mm curved galvanised steel.

Endlocks: High security galvanised endlocks formed from 2.5 mm galvanised steel, fixed to alternate laths covering the full height of the curtain.

Bottom Rail: 2 mm galvanised steel forming a rigid 'T' section.

Guide Channels: 75 mm deep x 32 mm wide x 3 mm walled galvanised steel.

Canopy/Facia: 0.9 mm galvanised steel formed to enclose the head plates, motor and barrel assembly.

Finish: Powder coated to colour from our standard colour range

Operation: Electrically via a single phase motor unit incorporating a hand chain manual override.

Controls (Extra Low Voltage):

Features:

- Extra Low voltage push button control.
- Volt-free motor control relays to switch motors or motor control circuits.
- Programmable relays.
- Zones that can be triggered by N/O or N/C contacts, 10 to 30 VCD input, Break Glass and Smoke/Heat Detectors.
- Zones that automatically reset Smoke/Heat Detectors.
- Programmable safety inputs, Stop, Stop and Return, Re-Open Time, Pause Length and Number of Retries.
- Auxiliary 12 and 24 volt DC supplies.
- Two stage closing.
- Fail safe closing, automatically converts a powered close door to solenoid drop if the mains fail.
- Option to activate on detecting mains fail, low battery or both.
- Automatic warning that the doorway is obstructed this feature use the photo electric cell to detect an obstruction.
- Double knob features zones 1 and 2 must be activated before the fire panel activates. V16 different sounder options.
- Automatic resetting the panel once the fire signal is removed.
- External reset facility.
- Interfacing with lifts, escalators and BMS.
- Built in battery back-up complete with charging circuit.
- Short circuit protection for the PCB and all inputs and outputs.

Fire alarm interface.

Manually via a fusible link, which when broken, drives the shutter down under a controlled descent.

Electrically Operated Fire Shutters

Operating Instructions - Designed to close in the event of a fire

1. TO OPEN: Press **“Open”** button on the Central Control Station. The door curtain will automatically stop at the full opening height, unless the **“Stop”** button is pressed.
2. TO CLOSE: Press **“Close”** button on the Central Control Station. The door curtain will automatically stop when fully closed, or when the button is released.
3. TO STOP: Press the red **“Stop”** button.
4. IN THE EVENT OF A POWER FAILURE

The motor is fitted with an emergency hand chain or crank mechanism access to the motor will be required. Lift hand chain or crank into position and operate manually. Operation will be very slow, when power is reinstated, the door will not operate electrically until hand chain or crank has been removed.

SPECIAL NOTE :

It is now a legal requirement that ALL Fire Shutters and Electrically Operated Roller Shutters SHALL be subject to suitable maintenance and be maintained in an efficient state.

General Note:

BGID does not recommend fitting locking devices to electrically operated doors. If locking must be fitted, then it MUST be released prior to operating the door or serious damage to the door / motor may occur.

MAINTENANCE:

It is STRONGLY recommended that a Preventative Maintenance solution be arranged with a competent shutter maintenance company. This is likely to minimise your servicing and repair costs over the long term. BGID offer such maintenance solutions.

The shutter guides should be kept clean and free from any materials that might jamb the shutter curtain. All electrical components should be checked on a regular basis – the operation of the safety brake should also be checked on a regular basis.

SAFETY CONSIDERATIONS:

HAZZARD	RISK TO PERSONNEL	PRECAUTIONS
Roller shutter being closed by remote control	Shutter aperture Obstructed	Operate shutter ONLY When the area is clear of all personnel. Isolate control system whenever maintenance is being carried out. Never operate the shutter unless fully in view and the area is clear
Failure of components causing the shutter curtain to fall.	Severe injury or worse	NEVER allow personnel to be in the area of the shutter when it is operating
Rotating shutter when box cover removed.	Trapping of limbs or hair	Total isolation of the electrical supply before removing the shutter box cover. For servicing, the electrical supply should be disconnected and a test switch installed. The test switch should only be used by a competent person servicing the shutter.
Unauthorised access to the shutter box	Trapping of limbs or hair.	Ensure ONLY trained persons are allowed to service the shutter.
Electrical hazards		Regular checking of electrical installation and earthing.

Safety Instructions

Warning : All types of Roller Shutter and Sectional Overhead Doors are fitted with counter balance spring mechanisms, which are under considerable tension. Any adjustment or repair MUST only be carried out by trained and qualified BGID installation engineers.

GENERAL

- 1 Only use opening & closing equipment supplied with the door
- 2 Keep opening clear of any obstacles when operating the door
- 3 **DO NOT** try to operate a damaged door – we recommend that you call BGID Service Department, who will advise the best course of action
- 4 **DO NOT** lean obstacles against the door
- 5 Work carried out on electrical control equipment **MUST** be by a competent electrician who **MUST** ensure the equipment is isolated prior to commencing any work. BGID have fully trained electrical staff.

GENERAL CLEANING

Every month clean shutters down using a mild detergent i.e. warm soapy water. Clean dust and dirt from inside facings and from guides. Lubricate moving parts.

MAINTENANCE

Health & Safety Welfare Regulations 1992 now applies to all Work Places from 1st. January 1996

Industrial Doors now have to comply with these regulations as from 1st. January 1996

- a. by door user - door operation is working freely and there is no visible damage to the door.
- b. by Approved Industrial Door Engineers – commonly twice per annum.
 - 1. secure any loose fastenings
 - 2. fully inspect all mechanical points
 - 3. adjust lock if required
 - 4. apply lubricants to all relevant parts
 - 5. check electrics i.e. control station, gearbox and limits
 - 6. fire doors only – carry out a mechanical “drop” test to ensure door closes in the event of a fire
 - 7. sliding folding doors – clean out bottom track

BGID provide a written report after each service visit.

BGID operate a specialised service and repair department with a genuine 24 / 7 nationwide call out facility using our own trained service engineers.

Out of Hours telephone number 07778 375310

Special Note: It is now a legal requirement that ALL Fire Shutters and Electrically Operated Roller Shutters SHALL be subject to suitable maintenance and have a traceable service history kept by yourselves



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