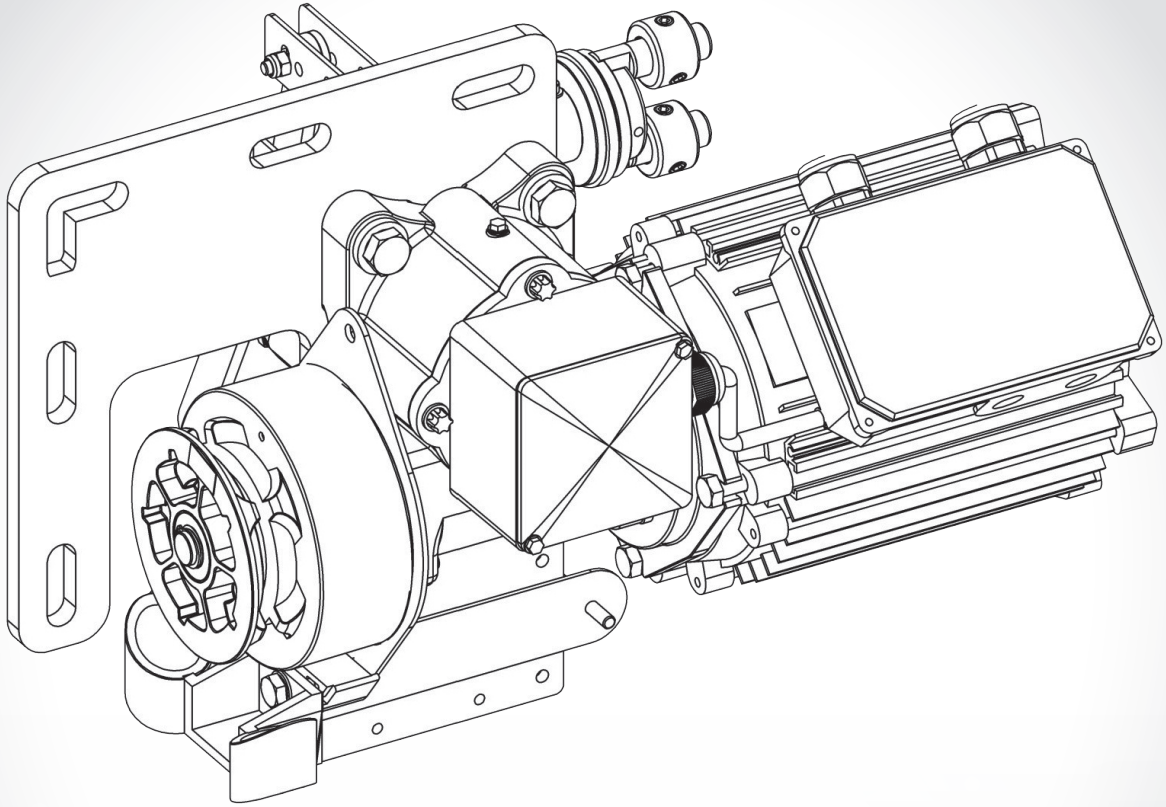


LiftMaster®

INSTRUCTION MANUAL



Fire Shutter

Installation and users manual for Fire Shutter Operator

قيرحلا عارصم لغشم نيمدختسملاو تيبتتلا ليلد

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Ref: D-M-FSO-003A_C

11th August 2025



SAFETY INSTRUCTIONS



WARNING: THESE ARE IMPORTANT SAFETY INSTRUCTIONS.

FOLLOW ALL INSTRUCTIONS AS INCORRECT INSTALLATION CAN LEAD TO SEVERE INJURY OR DEATH

SAVE these instructions

This commercial roller door operator has been designed and tested to offer safe service provided it is installed, operated, maintained and tested in strict accordance with the instructions and warnings contained in this manual.



WARNING

Mechanical

When you see this Safety Symbol and Signal Words on the following pages, they will alert you to the possibility of serious injury or death if you do not comply with the warnings that accompany them. The hazard may come from something mechanical.

- Keep commercial door balanced. Sticking or binding doors must be repaired. Commercial doors, door springs, pulleys, brackets and their hardware are under extreme tension and can cause serious personal injury. Do not attempt to loosen, move or adjust them. Call for commercial door service.
- Do not wear rings, watches or loose clothing while installing or servicing a commercial door operator.
- To avoid serious personal injury from entanglement, remove all ropes connected to the commercial door before installing the door operator.
- After the installation a final test of the full function of the system and the full function of the safety devices must be done.
- When operating a biased-off switch, make sure that other persons are kept away.
- The operator cannot be used with a driven part incorporating a wicket door (unless the operator cannot be operated with the wicket door open).
- Operator may become hot during operation. Appropriate clearance and/or shielding should be supplied by the installer to ensure any cabling, wiring and/or other items cannot come in contact with the operator. If temperature rise exceeds 50°C all fixed wiring insulation must be protected, for example, by insulating sleeving having an appropriate temperature rating.
- Do not allow children to play with operator wall controls or remote controls. Keep remote controls away from children.
- Permanently fasten all supplied labels adjacent to the wall control as a convenient reference and reminder of safe operating procedures.
- Disengage all existing commercial door locks to avoid damage to commercial door. Install the wall control (or any additional push buttons) in a location where the commercial door is visible during operation. Do not allow children to operate push button(s) or remote transmitter(s). Serious personal injury from a closing commercial door may result from misuse of the operator.
- Activate operator only when the door is in full view, free of obstructions and operator is properly adjusted. No one should enter or leave the building while the door is in motion.
- The actuating member of a biased-off switch is to be located within direct sight of the door but away from moving parts. Unless it is key operated, it is to be installed at a minimum height of 1500mm and not accessible to the public.
- Make sure that people who install, maintain or operate the door follow these instructions. Keep these instructions in a safe place so that you can refer to them quickly when you need to.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Use the operator for its intended purpose. The operator is designed lifting spring-balanced roller doors.
- Automatic Drive - Keep away from the area of the door as it may operate unexpectedly.
- Ensure that entrapment when operating the door in the open direction is avoided.



WARNING

Electrical

When you see this Safety Symbol and Signal Words on the following pages, they will alert you to the possibility of serious injury or death if you do not comply with the warnings that accompany them. The hazard may come from electric shock.

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Installation and wiring must be in compliance with your local building and electrical codes. Connect the power supply cord only to properly earthed mains.
- Moisture and water can destroy the electronic components. Make sure under all circumstances that water moisture or storage moisture cannot penetrate the electronics. The same applies for openings and cable entries.
- An electrician must disconnect electric power to the commercial door operator before making repairs or removing covers.



CAUTION

When you see this Signal Word on the following pages, it will alert you to the possibility of damage to your commercial door and/or the commercial door operator if you do not comply with the cautionary statements that accompany it.

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INTRODUCTION

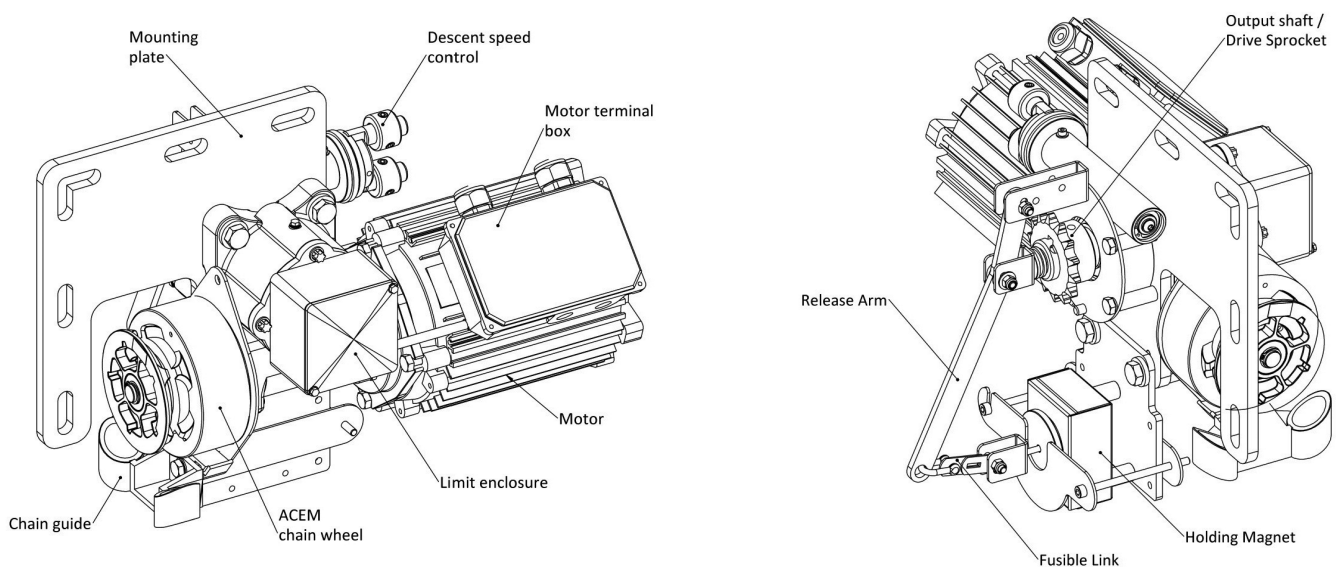
Congratulations on your purchase of the LiftMaster Fire Shutter operator unit. For more than 50 years, we have been producing industrial mechanical operators that are well known for their proven reliability & robust design.

The LiftMaster Controlled Descent Mechanism has been developed to allow the safe emergency closing of fire shutters. The system allows efficient operation of the shutter during normal circumstances. If a fire is detected the linkage connected to the system's release arm will break, the shutter will then automatically descend to the ground under its own weight. The shutter lowers safely since its speed is limited by the controlled descent mechanism. This system eliminates the danger associated with a free-falling shutter.

IMPORTANT:

The Holding Magnet requires a constant DC voltage of either 12V or 24V (default), which can be selected using internal jumpers within the Holding Magnet. When power is removed, the magnet releases allowing the mechanism to disengage.

IDENTIFYING YOUR OPERATOR



WARNING MECHANICAL

Please remove any locks fitted to the door before operation in order to prevent damage to the door.



WARNING MECHANICAL

It is important to make sure the door always runs smoothly. Doors which stick or jam must be repaired immediately. Employ a qualified technician to repair the door, never attempt to repair it yourself.

PLANNING

Identify the type and dimensions of your commercial door. A survey of the application is recommended to see if any of the requirements below are not applicable with your installation.

Based on “standard shutter”:

- The shutter is correctly spring balanced
- The shutter has $\leq 1.0\text{mm}$ x $\geq 100\text{mm}$ slats
- The shutter has no wind-locks
- A $\geq 4:1$ sprocket ratio is used

If any conditions above are not met, some consideration should be given to increasing the sprocket ratio, or operator size. The operator should be installed on the correct side of the commercial door. Consider an In-board mounting kit (P.No IBMK) if there is insufficient side room. Select the side that meets the requirements listed below.

- Must have minimum distance of 15mm between mounting plate and door drum sprocket
- Must have minimum distance of 200mm between limit housing and imposing structure
- Must have minimum clearance of 200mm from the terminal box
- Before installing the operator, check that the commercial door is in good mechanical condition, correctly balanced and open & closes properly.

BOTTOM RAIL WEIGHT AND/OR REVERSE SPRINGING

To provide the shutter with a greater initial closing force, particularly when fully open, the bottom rail should be made heavier. This can be achieved by attaching approximately 5kg of steel flat bar to the upper side of the bottom rail. An alternative or additional method to ensure the shutter will descend when released is to slightly reverse spring the shutter at its fully open position. This will give the shutter a bias towards closing when it is in its fully open position.

NOTE: The shutter must have radial ball or roller bearings on the shutter axle.

Model Number	Rated Load (Nm)	Duty Rating (%)	Phases	Door size (m ²)*	kW	Amp	Max Door Mass (kg)**
58001A406FFH	120	10	3	28	1.7	2.7	420
58017A406FFH	140	10	3	36	2.16	3.48	540
58016A226FFH	80	10	1	28	1.25	5.98	360

NOTE: Installer is to check that the temperature range marked on the drive is suitable for the location.



CAUTION

The roller shutter guides must be fitted with mechanical stops that prevent the bottom rail from passing through in the opening direction. The operator should stall if driving into the mechanical stops.

INSTALLATION

MOUNTING THE UNIT

The Fire Shutter is typically flag mounted below the door drum so that the operator shaft points toward the door opening and lies beneath the sprocket of the door drum. For mounting you will need to either secure the operator to the roller shutter head plate with prepared holes or slots, or use a mounting plate that will need fixing via a wall angle or similar existing fixture.

Note: THE FIRE SHUTTER IS NOT DESIGNED TO BE INSTALLED UPSIDE DOWN.

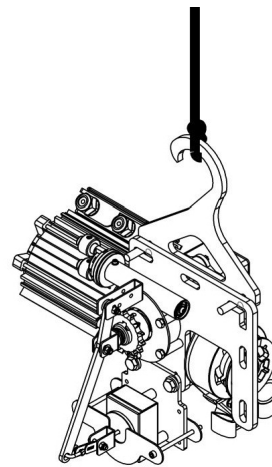
THE CHAIN GUIDE MUST NOT BE REPOSITIONED.

When assessing and selecting an appropriate mounting location, the following considerations should be made:

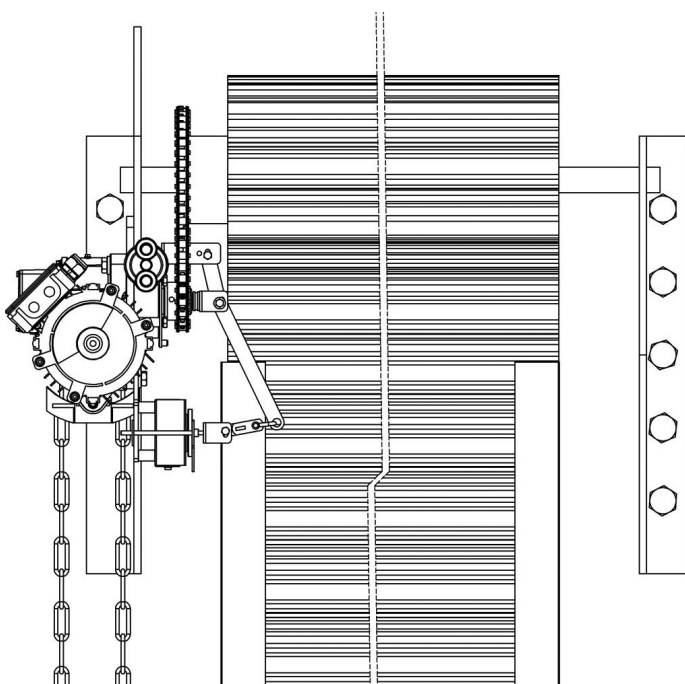
The unit must be mounted accurately so that the drive sprocket lines up with the shutter platewheel. There is only a small allowance for adjustment of the drive sprocket position on the output shaft. Fit the correct length of drive chain around the drive sprocket and platewheel.

NOTE: It is strongly recommended a strap be used to raise the operator to necessary height, shown right. The top end of the strap should be connected to a secure support beam above the door axle.

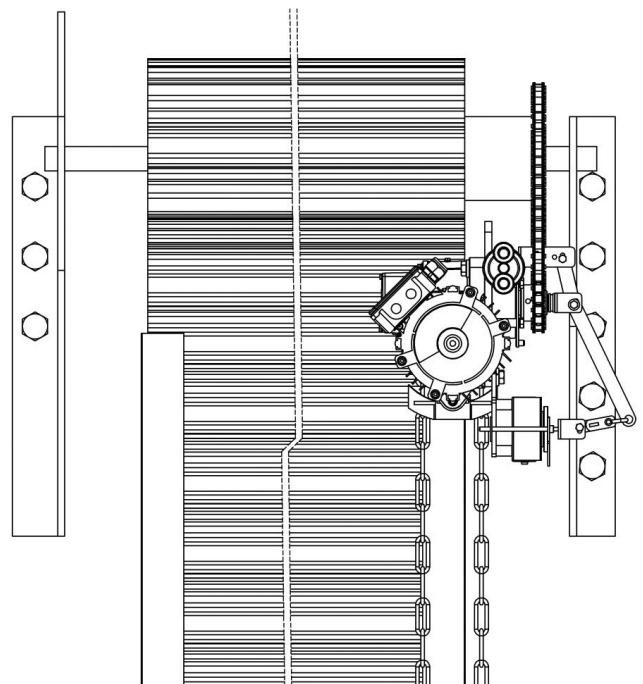
(Hook is not provided with the operator)



Outboard mounting—left hand operator is shown

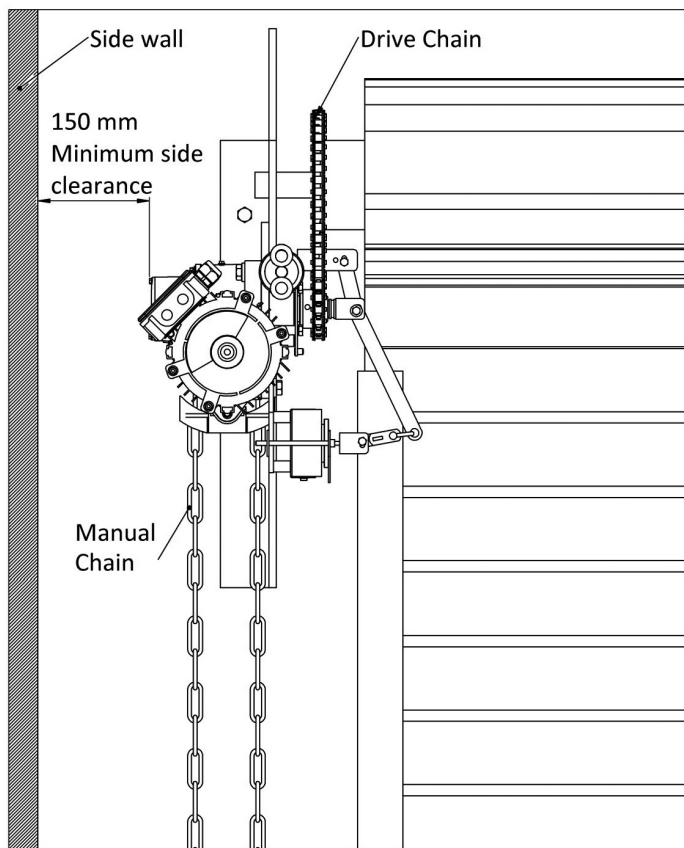


Inboard mounting—left hand operator is shown

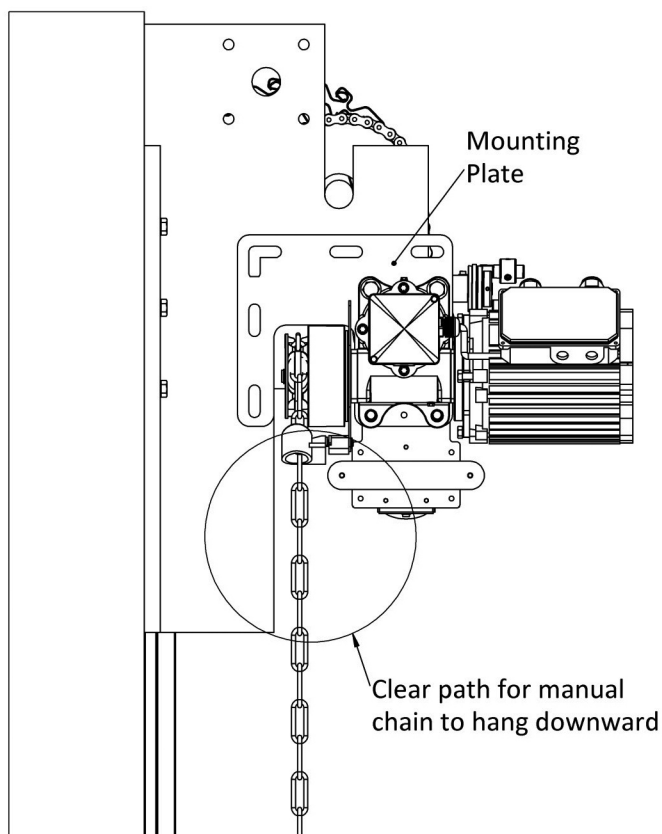


INSTALLATION

MOUNTING THE UNIT (CONTINUED)



The unit must be mounted accurately so that the drive sprocket lines up with the shutter platewheel. There is only a small allowance for adjustment of the drive sprocket position on the output shaft. Fit the correct length of drive chain around the drive sprocket and platewheel.



Mounting plate slots allow the chain tension to be adjusted through vertical movement of the operator (see Left)

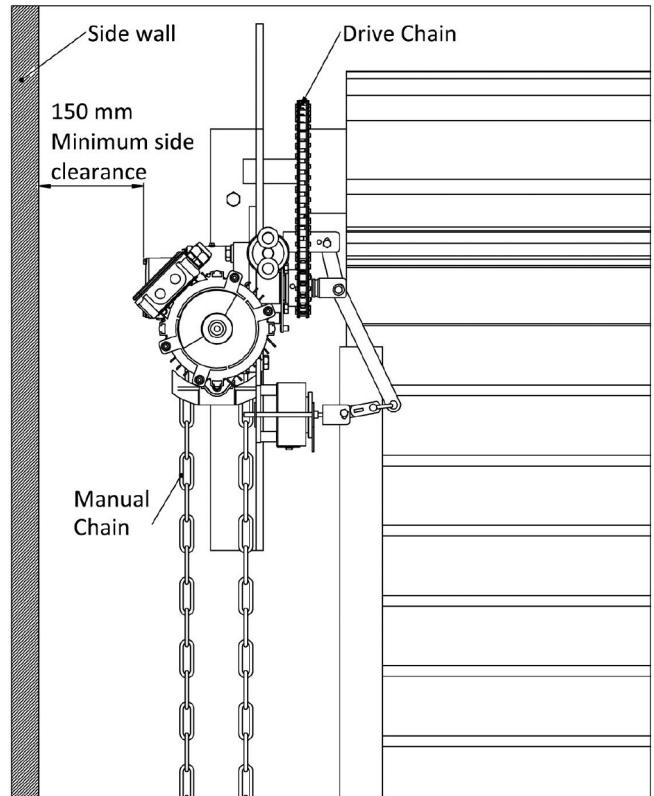
INSTALLATION

MOUNTING THE UNIT (CONTINUED)

Side room to imposing structures (see right)

Note: The Fire Shutter limit housing requires adequate clearance to allow setting of limit cams during installation. 150mm is the minimum recommended clearance between wall and lid. Where there is insufficient side room, consider using the opposite hand operator and mount inboard with a Grifco™ Inboard Mounting Kit, Part No. IBMK.

The drive sprocket must be aligned with the door sprocket, and locked using 2 x M8 hi-tensile grub screws tightened to min 20Nm. Grub screws must be set between 90° and 120° apart, with one grub screw lying over the drive key.

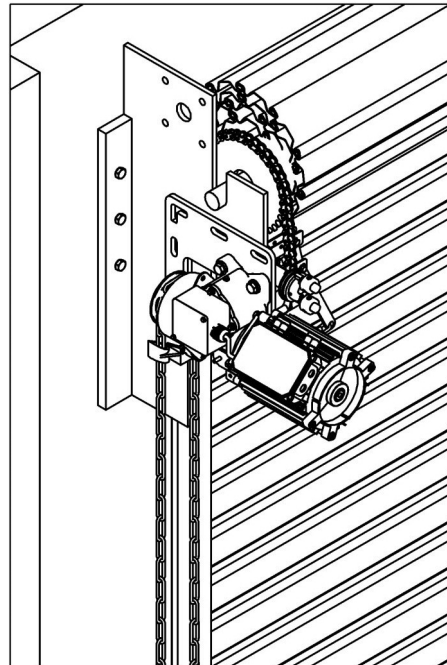


Chain tension should be set between 10-20kgs, ensuring both sides of the linkage are taught. Where practicable, use the weight of the operator as a preload, then tighten mounting bolts. M12 fasteners should be tightened between 80-90Nm.

Ensure the mounting position allows the hand chain to hang free of obstructions (see right).

Ensure hand chain is not twisted when making the join!

NOTE : Magnet clamps (Retaining plates) must be removed when power is connected from Fire Panel.



AUTOMATIC CHAIN ENGAGEMENT MECHANISM (ACEM)

The patented ACEM features allows the use of the hand chain in the event of a power failure. Simply pull on the hand chain in either direction to operate the door manually.

Warning! Ensure power is isolated when using this feature.

The ACEM label (see right) must be fixed in close proximity to the controller e.g. on the door track.



INSTALLATION



CAUTION

When Securing the Fire Shutter Operator with the 4 x M12 x 40mm long fasteners (based on a 10mm mounting plate) and spring washers provided, it is critical to ensure that the applied torque is between 80-90Nm. When mounting through thicker sections, ensure a minimum of 30mm of screw thread is engaged with the female thread. Use of incorrect fasteners or torque may cause serious product damage and/or personal injury. When fixing through a slotted plate, ensure that the slots are no wider than 13mm as a spring washer may not be adequate in outside diameter to support the hexagon head.



CAUTION

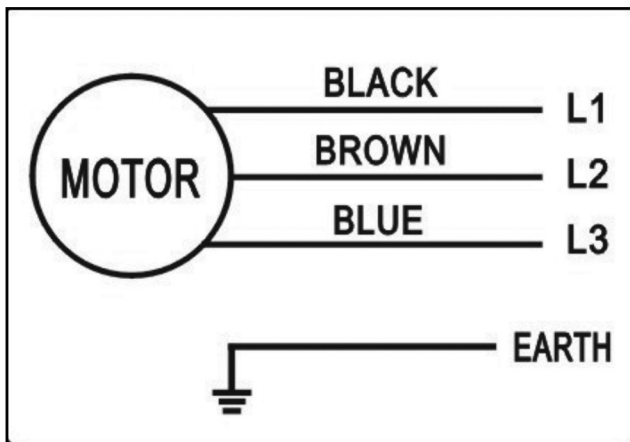
The Fire Shutter Operator must:

- be connected via a device that is capable of being locked for maintenance
- be connected via a suitable circuit breaker that disconnects all live conductors
- be connected in accordance with the wiring rules of the country in which it is installed
- not have control enclosures left open for extended periods (excess dust will void warranty)
- Run all cable through non-flexible conduit and use appropriate conduit entries

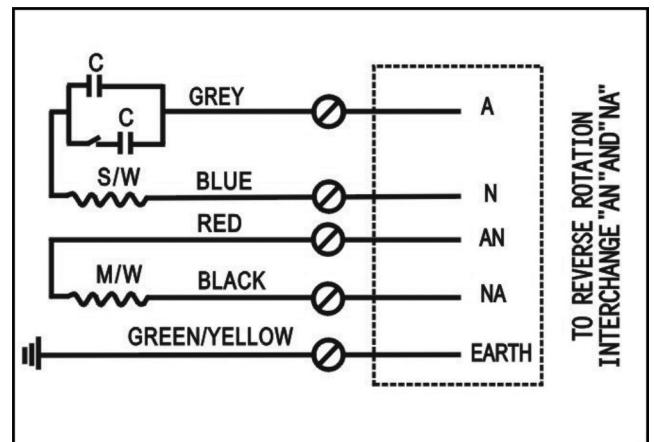
ELECTRICAL CONNECTIONS

MOTOR CONNECTIONS

MODELS: Three phase 3 wire



MODELS: Single phase 4 wire



INSTALLATION

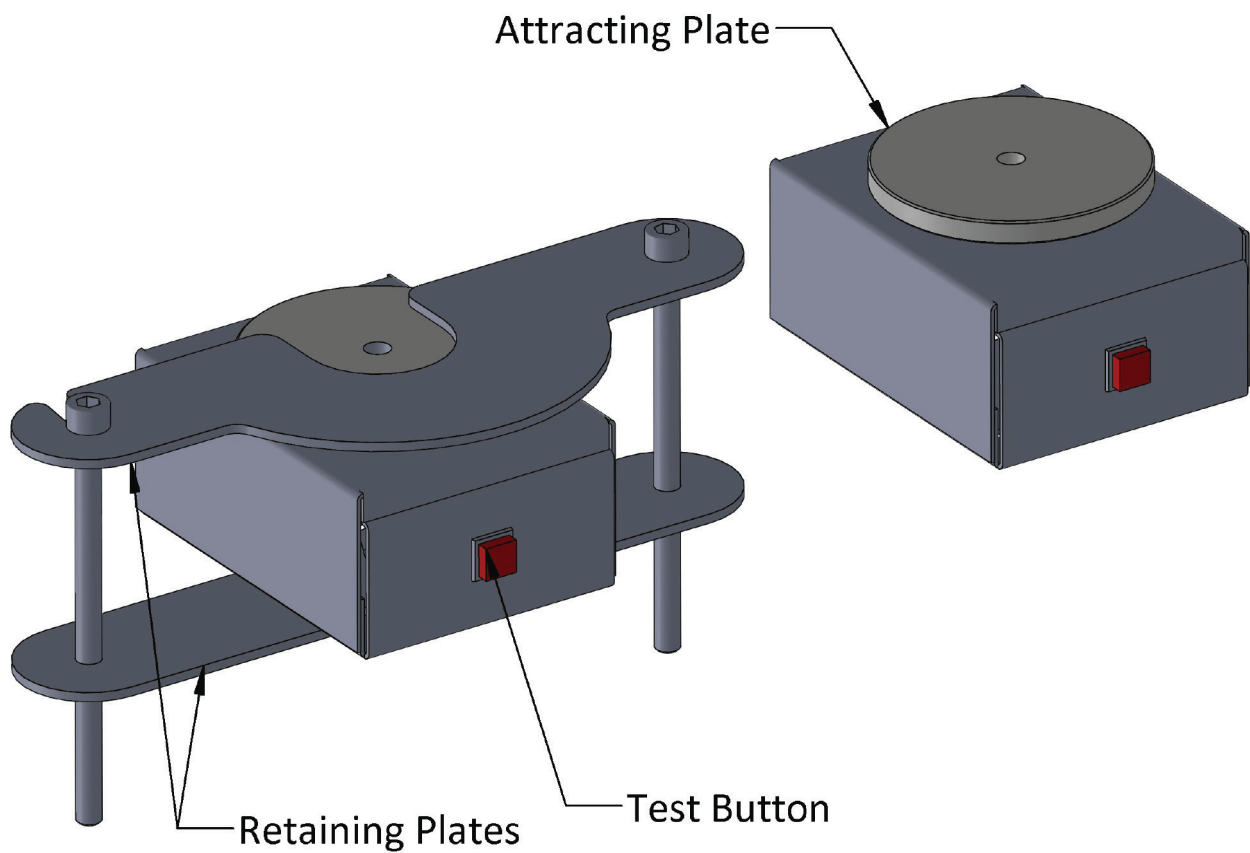
REVERSING STARTERS AND OVERLOADS

MODEL	OPERATOR COMPATIBILITY	VOLTAGE- MOTOR	VOLTAGE-CONTROL	OVERLOAD
THREE PHASE RG374-LB3E007A	58001A406FFH 58017A406FFH	400V - THREE PHASE	220V	2.3A-3.2A
SINGLE PHASE RG376-LB1E010A	58016A226FFH	220V - SINGLE PHASE	220V	7.2A-10.0A

For reversing starter connection details:
Refer to the diagram included with the control.

INSTALLATION

HOLDING MAGNET



Note: Remove Retaining Plates only after connecting the low voltage power supply.

SPECIFICATIONS

Input Voltage	12VDC or 24VDC (This low voltage supply is not supplied with the operator. Installer to provide this supply from the building fire panel)
Current Draw	140mA/12VDC 70mA/24VDC
Holding Capacity	40kgs
Release Button	Normally Closed (NC)
Operating Temp.	10 to +55°C (14-131F)

INSTALLATION

MOUNTING

The LiftMaster Holding Magnet is designed to be directly mounted to a rigid surface or pre-fitted to a Fire Shutter Operator or Hoist. The supplied retainer plates can be used during the initial installation to secure the attracting plate to the holding magnet surface with or without power. The retainer plates can also be used if the holding magnet is not required for use.

The Holding Magnet features a spring loaded release pin. When positioning the attracting plate onto the magnet, ensure that the spring loaded release pin is fully depressed.

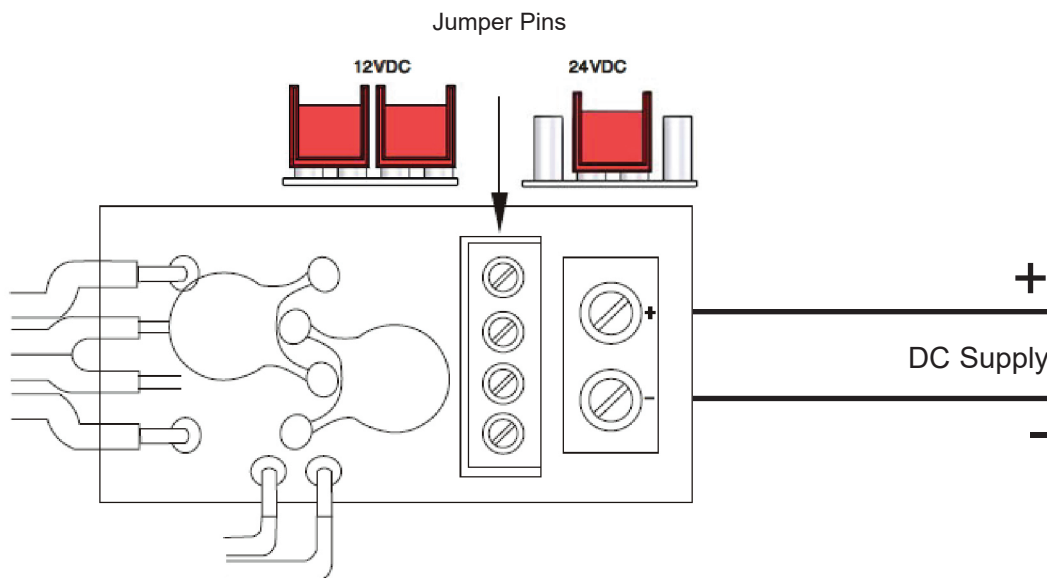
Once the attracting plate is in position, supply power to the holding magnet and remove the retaining plates. The attracting plate should now be held in position by the magnet. When powered, the magnet can be released by pressing the red test button on the magnet enclosure.

ELECTRICAL CONNECTIONS

The magnet can be connected to either 12VDC or 24VDC.

Using the two wire terminal block, connect the negative (-) from the DC power source to the Negative (-) on the terminal block. Connect the positive (+) from the DC power source to the Positive (+) on the terminal block.

Using the jumpers supplied, select the input voltage by placing the jumpers over the pins as shown below.



OPERATION

When the DC power supply is removed, the magnet will release and allow the door to close.



WARNING

While the retaining plate is installed, the attracting plate WILL NOT disengage, with or without power.

INSTALLATION

MAINTENANCE

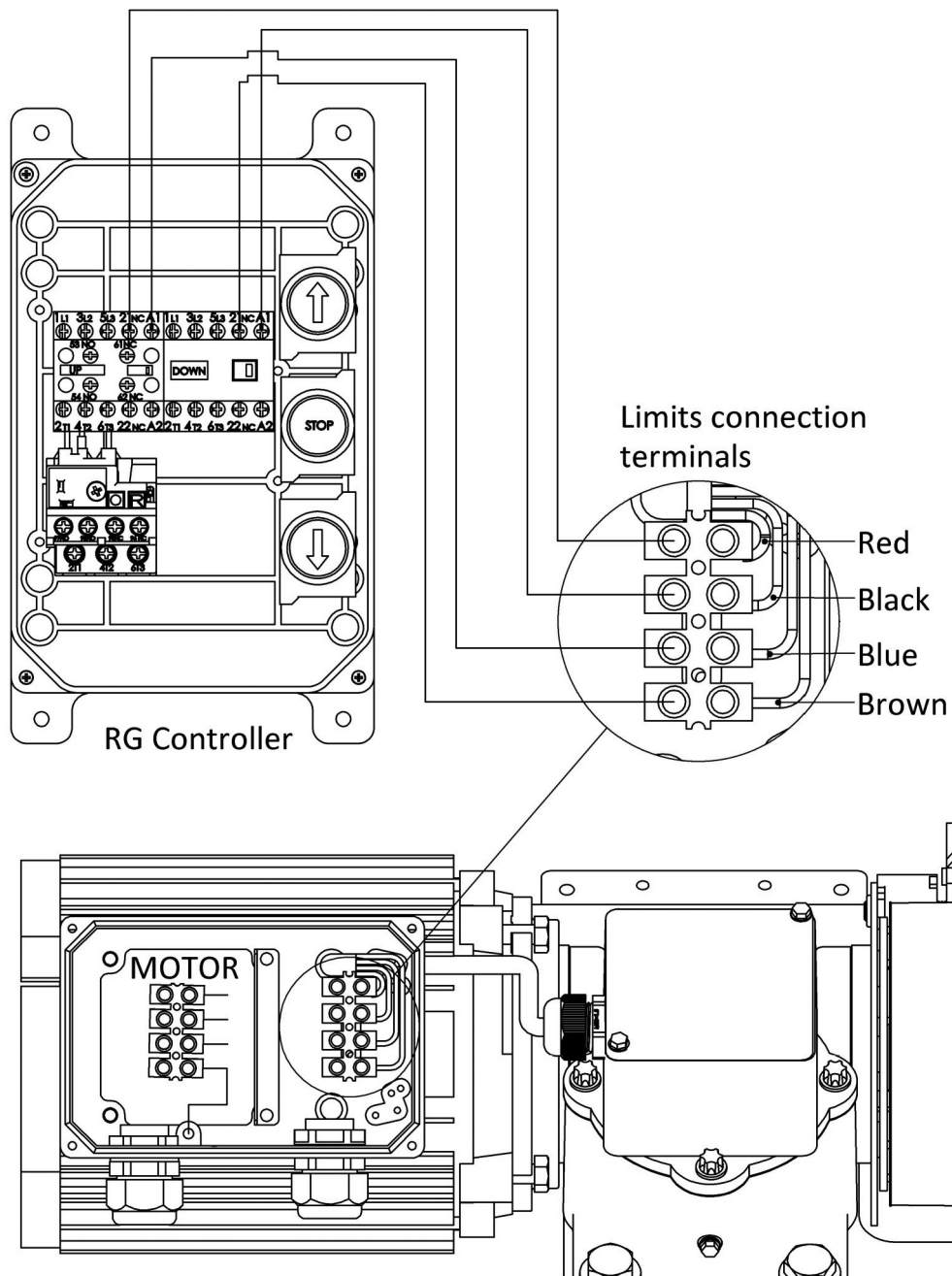
The Holding Magnet should be checked periodically to ensure that it is functioning correctly.

Ensure the door is clear of any obstructions and that people cannot walk under the door during the test. Press the red test button on the magnet enclosure to release the attracting plate. The door will be released and will close. Once the door has closed, re-attach the attraction plate to the magnet.

Switching off the DC power supply to the holding magnet will also release the attracting plate (assuming there is no back up power supply). The magnet will be de-energized until the power supply is switched back on.

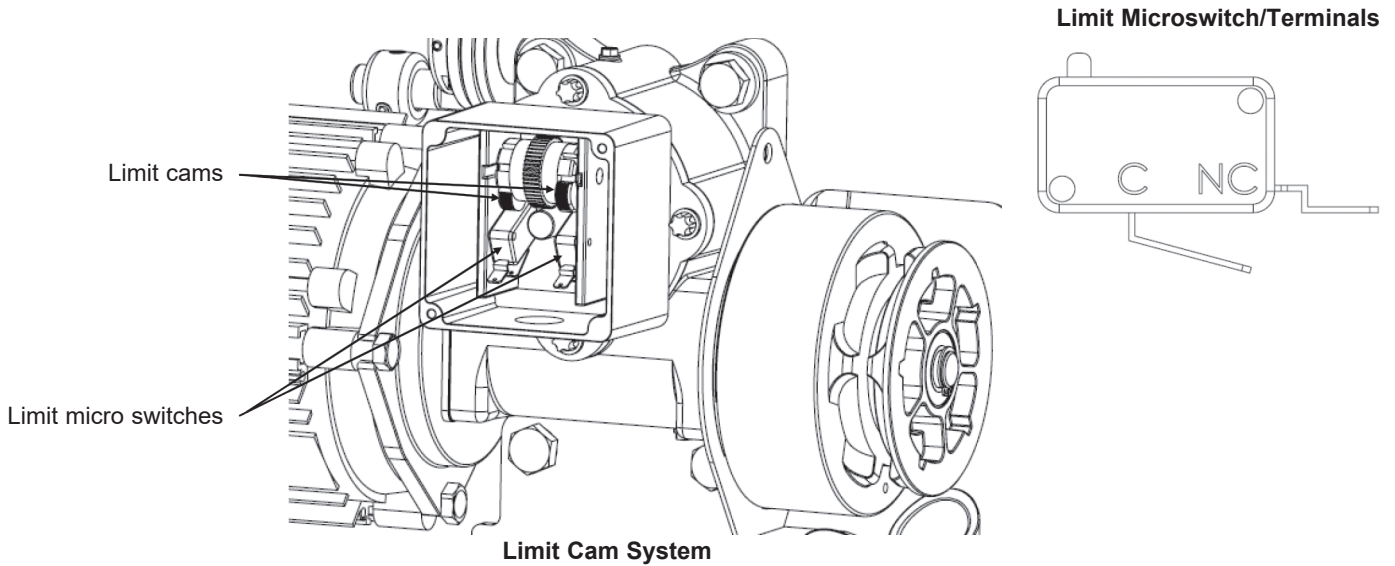
LIMIT SWITCH CONNECTION

Follow the schematics when connecting limits to the RG controller.



LIMIT SWITCH CONNECTION

The limit switches are connected to the control gear being used via the NORMALLY CLOSED (N/C) and COMMON (COM) of the microswitch:



SETUP AND ADJUSTMENT

Limit setting procedure

- ISOLATE MAINS BEFORE SETTING LIMITS
- AVOID CRAMMING WIRES INTO LIMIT ENCLOSURE AS IT MAY AFFECT CAM MOVEMENT

Follow the steps below:

1. Manually position the door in the centre of the opening.
2. Position one cam to depress a switch and the other so that it is well clear of the switch (note which switch it is that you have depressed).

For controls with up and down functions:

- Supply power and activate control in the upward direction.
- If the door travels up, then the limit switch which is engaged by the cam is the CLOSED limit.
- If the door doesn't move it is at the OPEN limit.
- Continue to Step 3 below

For single button controls:

- Supply power and push the button.
- If the door travels up, then the limit switch which is engaged by the cam is the CLOSED limit.
- If the door travels down, then the limit switch which is engaged by the cam is the OPEN limit.
- Continue to Step 3 below

3. Isolate power and adjust the limit cams to depress the switches when the shutter reaches its OPEN and CLOSED positions.
4. Supply power and cycles the door between the OPEN and CLOSED positions. Adjust cam position if necessary.



WARNING

Limits are extremely sensitive, a small cam movement may correspond to a large amount of shutter travel.

FIRE SHUTTER MECHANISM

RELEASE ARM DISENGAGED POSITION

When the release arm has no fusible linkage connected, the spring inside the mechanism will force the arm into its disengaged position. In this position the output shaft is disengaged from the drive sprocket and engaged with the flyweight shaft. This is the position of the arm for controlled descent of the shutter without electrical power.

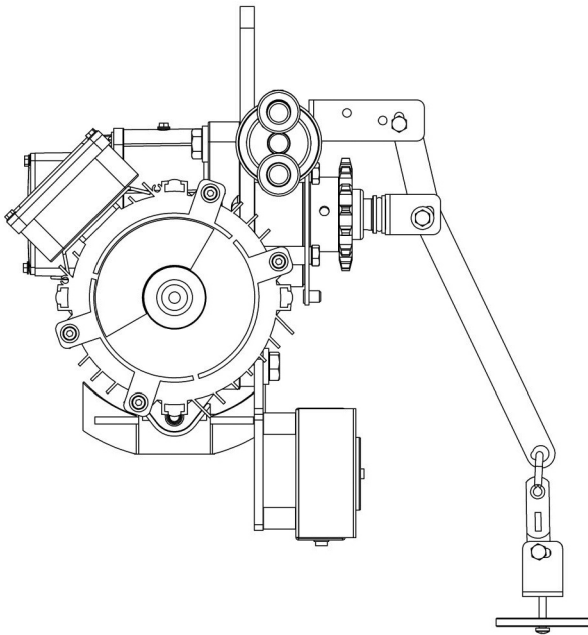
RELEASE ARM "WAITING TO ENGAGE"

The release arm may only be fully engaged on half of the output shaft rotation. For the other half of its rotation the arm will be held out at a slight angle to the plate. This will be called "waiting to engage". When the release arm is waiting to engage, operating it manually or electrically will cause it to automatically engage.

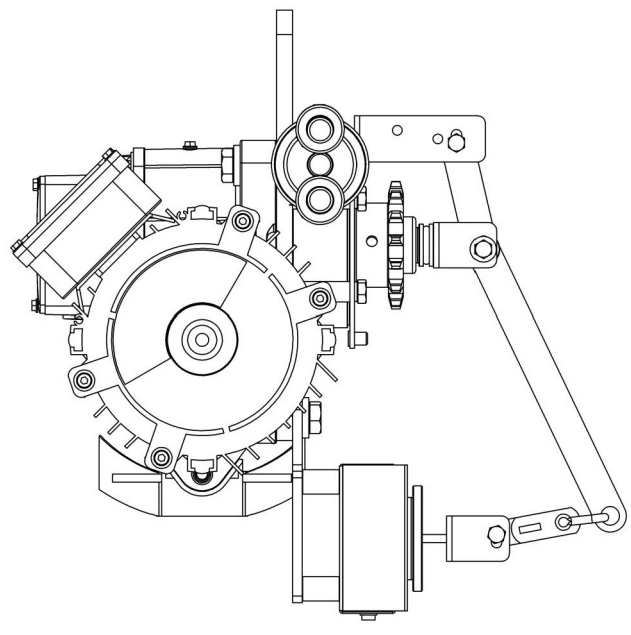
RELEASE ARM ENGAGED POSITION

In this position the output shaft is engaged with the sprocket and disengaged from the flyweight shaft. This is the position for normal electrical or manual operation of the shutter. To engage the arm, a spring assisted fusible linkage is used. In the engaged position the release arm is parallel to the mounting plate.

RELEASE ARM POSITIONS



DISENGAGED



ENGAGED

FIRE SHUTTER MECHANISM (CONTINUED)

RELEASE ARM FUSIBLE LINKAGE TYPES

There are three basic forms of fusible linkages, heat, voltage, and heat and voltage. These systems may be connected in series with a cable.

FUSIBLE LINKAGE CONNECTION

The fusible linkage should be connected in series with a spring so that it engages the release arm. The end of the linkage not connected to the release arm should be fastened to a secure fixed point. The linkage must be arranged so that the force provided to engage the release arm is in a direction close to parallel to the axis of the output shaft.

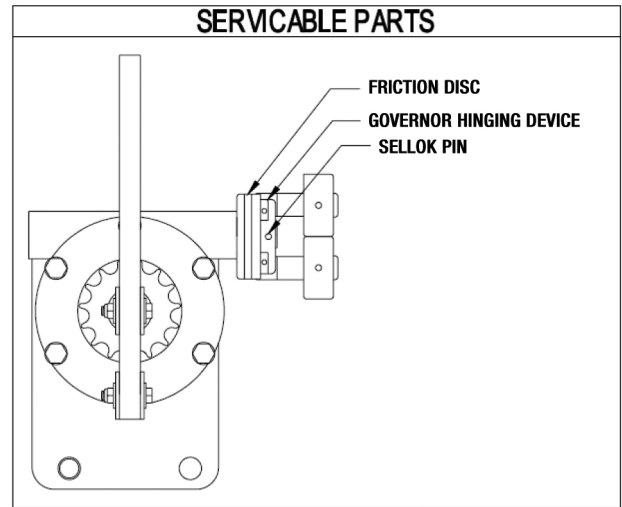
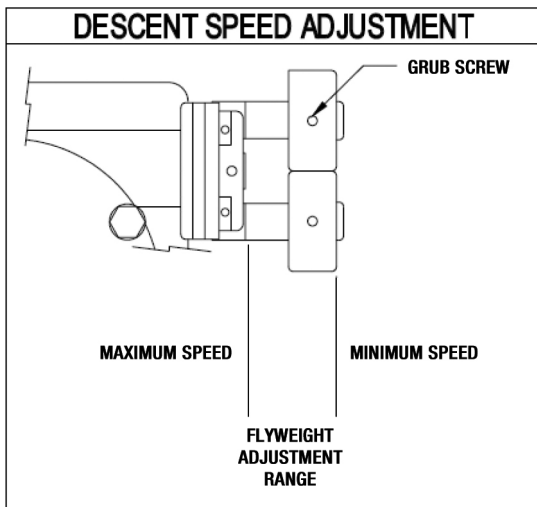
RELEASE ARM SPRING TENSION

When the release arm is in the engaged position, the spring should be stretched to be at least 250mm in length.

ADJUSTING THE CONTROLLED DESCENT SPEED

The speed at which the shutter falls during controlled descent can be adjusted by moving the governor flyweights. If the flyweights are at their outermost points on their shafts, descent speed will be at its lowest. If they are on their innermost points the descent speed will be at its highest. To move the flyweights, loosen their grub screws with an allen key and slide them into the desired position on their shafts. Tighten the grub screws with the allen key.

When adjusting the flyweights, ensure the descent speed control brake is **NOT** engaged during normal operation via the Reversing Starter or Controller



TESTING

To test the system, engage the release arm and lift the shutter 500mm with the hand chain. Then disengage the release arm. The shutter should fall steadily to the ground.

OPERATION

If the operator is fitted to the shutter and has a spring assisted fusible link causing the release arm to engage or be waiting to engage, it is ready for operation. The shutter may now be operated manually or electrically.

If the fusible link breaks due to fire or fire alarm signal, the shutter will undergo controlled descent to the ground. The release arm is now disengaged.

To operate the shutter after controlled descent, the release arm must be re-engaged with a new fusible link.

MAINTENANCE

Testing

The controlled descent device should be tested every six months in most installations. In corrosive or dusty environments, the device should be tested more often.

Friction Disc

Of the operator's moving parts, the only one that could possibly wear is the friction disc. The disc is located on the governor. The disc is 6mm (1/4") thick. If the disc wears so that it is less than 3mm in thickness, it will need to be replaced. (This type of wear should not occur during the lifetime of the product.) To replace the disc, remove the selok pin that fixes the governor-hinging device to the shaft. When the pin is removed, the hinging device and the friction plate may be removed allowing replacement of the friction disc.

Monthly

- Check chain alignment and tension. Adjust if required
- Check PE / IR beam/s and bump edge functionality where applicable

Quarterly

- Check tightness of fixing bolts and (sprocket) grub screws. Adjust if required * refer page 6
- Check correct electrical operation
- Check manual operation via hand chain
- Lubricate the drive chain
- Lubricate flyweight linkages and the sliding pin when it is extended from the output shaft
- Anticorrosion spray should be applied to all components to prevent them from deteriorating
- Check door balance. Adjust if required
- Conduct door maintenance in accordance with door manufactures guidelines. This will include door balance

SERVICE MUST BE CARRIED OUT BY A QUALIFIED TECHNICIAN

TROUBLESHOOTING

PROBLEM	Resolution
Shutter will not lift after engaging release arm	Increase spring tension on release arm, or remove slack from cable linkage.
Shutter does not descend when mechanism tested	A) Ensure drive chain is aligned between sprockets. B) Ensure drive chain is not overtightened. C) Ensure sprockets have not been attached so that eccentric rotation results. D) Check for and remove any obstructions from the shutter guides. E) Ensure roller or ball radial thrust bearings have been used on shutter axle. F) Increase the weight on the bottom rail. And/or G) Increase shutter reverse springing. H) Release some of the spring tension from the shutter drum.
Shutter falls back down when operated	Ensure release arm fully engaged.



CAUTION

DO NOT allow anticorrosion spray, grease or any other lubricating product come into contact with the friction disc or friction plates!

SAFETY INSTRUCTIONS

مراجعة رموز السلامة وكلمات التنبيه

تم تصميم واختبار جهاز فتح الأبواب التجاري هذا لتقديم خدمة آمنة بشرط أن يتم تركيبه وتشغيله وصيانته واختباره بالتوافق الدقيق مع التعليمات والتحذيرات الموجودة في هذا الكتيب.

عندما ترى رموز السلامة وكلمات التنبيه هذه في الصفحات التالية، فهي تنبّهك باحتمالية الإصابة الخطيرة أو الموت إذا لم تمتثل للتحذيرات التي تصاحبها. قد يأتي الخطر من شيء ميكانيكي أو من الصدمة الكهربائية.



عندما ترى كلمة التنبيه هذه موجودة في الصفحات التالية، فهي تنبّهك باحتمالية حدوث ضرر لبابك التجاري و/أو جهاز فتح الأبواب التجاري إذا لم تمتثل لعبارات التنبيه التي تصاحبها.



تعليمات السلامة التالية هامة للغاية، يرجى اتباع جميع التعليمات حيث أن التركيب غير الصحيح قد يؤدي إلى الإصابة الشديدة أو الموت

يجب أن يكون الباب التجاري متوازنًا. يجب إصلاح الأبواب العالقة أو المحشورة. تقع الأبواب التجارية وزنبركات الباب والكابلات والبكرات والكتيفات وعتادها تحت ضغط شديد ويمكن أن تسبب الإصابات الشخصية البالغة. لا تحاول فكها أو تحريكها أو تعديلها. اتصل بخدمة الأبواب التجارية



احتفظ بالملحقات الإضافية بعيدًا عن متناول الأطفال. لا تسمح للأطفال باللعب بزر (أزرار) التشغيل أو جهاز (أجهزة) التحكم عن بُعد. قد ينتج عن الاستخدام الخاطئ لجهاز فتح الباب الإصابة الشخصية البالغة التي قد تحدث بسبب إغلاق الباب التجاري. حيث أن الباب قد يسبب إصابات خطيرة عند إغلاقه بدون توافر أجهزة السلامة. يُسمح فقط للأشخاص المدربين باستخدام جهاز فتح الباب.



شغل جهاز فتح الباب فقط عندما يكون الباب مرتبًا بشكل كامل وخالي من العوائق وأن يكون جهاز فتح الباب قد تم ضبطه بشكل صحيح. يجب ألا يدخل أو يغادر أحد المبنى عندما يكون الباب في وضع الحركة.



يجب أن يقوم أحد فنيي الكهرباء بفصل التيار الكهربائي عن جهاز فتح باب التجاري قبل إجراء أي إصلاحات أو إزالة الأغذية.



يمكن أن تؤدي الرطوبة والماء إلى تلف المكونات الإلكترونية. تأكد أن الرطوبة والماء أو رطوبة التخزين لا يمكنها اختراق الإلكترونيات تحت كل الظروف. ونفس الشيء ينطبق على الفتحات ومداخل الكابلات



عند التشغيل كمفتاح انحيازي، تأكد أن الأشخاص الآخرين بعيدين.



هذا الجهاز ليس مخصصًا لاستخدامه من قِبل الأشخاص (بما في ذلك الأطفال) الذين لديهم نقص في القدرات الجسدية أو الحسية أو العقلية، أو تنقصهم الخبرة والدراية، إلا إذا قام شخص بالغ مسؤول عن سلامتهم بالإشراف عليهم أو إرشادهم عن كيفية استخدام الجهاز. يجب مراقبة الأطفال لضمان عدم العبث بالجهاز.



SAFETY INSTRUCTIONS

استخدم مشغل الباب التجاري وأجهزة التحكم في الأغراض المخصصة لها. تم تصميم مشغل الباب وأجهزة التحكم لتشغيل المصاريح اللفافة المتوازنة بزنبركات والأبواب اللفافة المتوازنة بزنبركات والأبواب متوازنة الثقل ثنائية الطي والأبواب ذات الرفع العمودي.



تحذير: تعليمات هامة للسلامة. من المهم لسلامة الأشخاص اتباع جميع التعليمات. احتفظ بهذه التعليمات.



من المهم التأكد أن الباب يعمل بسلاسة بشكل دائم. يجب إصلاح الأبواب التي تعلق أو تتحشر على الفور. قم باستدعاء مهني كفؤ لإصلاح الباب، ولا تحاول أبدًا إصلاحه بنفسك.



التشغيل

لتشغيل الباب

اضغط زر أعلى (UP) في جهاز التحكم لفتح الباب، واضغط زر أسفل (DOWN) مع الاستمرار للإغلاق.

لتشغيل الباب، انظر تفاصيل جهاز التحكم

التشغيل اليدوي

آلية التعشيق التلقائي للسلسلة (ACEM)

تسمح لك ميزات آلية التعشيق التلقائي للسلسلة (ACEM) الحاصلة على براءة الاختراع باستخدام السلسلة اليدوية في حالة تعطل التيار الكهربائي. ببساطة اسحب سلسلة اليد في أحد الاتجاهين لتشغيل الباب يدويًا.

تحذير! تأكد أن مصدر التيار معزولاً عند استخدام هذه الميزة. قد يؤدي استخدام السلسلة اليدوية خلال تشغيل الباب بالتيار الكهربائي إلى تلف الجهاز أو إصابة المستخدم. تأكد من إغلاق مصدر التيار قبل استخدام السلسلة اليدوية.

يتم وضع ملصق آلية التعشيق التلقائي للسلسلة (ACEM) (انظر على اليسار) بالقرب من جهاز التحكم على سبيل المثال، على مسار الباب.

الصيانة العامة

يرجى اتباع تعليمات بائع الأبواب التجارية في عملية الصيانة.



