Logic 5.0 Commercial Door Operator
USER'S GUIDE

Security+ 2.0®

myQ®

Models T, APT, H, J, HJ, GH, GT, SD, and GSD

NOT FOR RESIDENTIAL USE

THIS PRODUCT IS TO BE INSTALLED AND SERVICED BY A TRAINED DOOR SYSTEMS TECHNICIAN ONLY.

Operators are shipped in C2 operating mode.
Visit www.liftmaster.com to locate a professional installing dealer in your area.

2 YEAR WARRANTY

Serial # _____

Installation Date _____

CONTACT INFORMATION

c(UL)us
LISTED

LiftMaster
300 Windsor Drive
Oak Brook, IL 60523

LiftMaster.com

LiftMaster®

INTRODUCTION

Congratulations on purchasing a quality LiftMaster Logic 5.0 Commercial Door Operator.

The Logic 5.0 operator provides everything you know and trust in the prior version, plus the new features listed below:

myQ® Smart Facility Access

myQ® technology enables secure monitoring and control of Logic 5.0 operators and other myQ accessories from anywhere with a mobile device or computer using the myQ app and myQ® Smart Facility Management platform. See page 3 for more information.

Security+ 2.0®

- Increased security – with every click a new code is sent to the commercial door operator ensuring the door opens only for the individual pressing the remote
- Enhanced radio communicates with tri-band frequency to improve range and reduce interference – assuring the door opens, stops and closes conveniently and reliably every time

Dual Voltages

- Single phase operators provide (115V and 230V)
- 3 phase operators provide (208/230V and 460V)
- 575V operator

CYCLE RATINGS

STANDARD DUTY:
Up to 25 cycles/hr. at peak periods.
Up to 80-90 cycles/day.

Models T, APT, J, DJ,
H, DHJ, & SD

HEAVY DUTY:
25 cycles/hr. constant high loading
in excess of 90 cycles/day.

Models GT, GH, & GSD

myQ® SMART FACILITY ACCESS

LiftMaster offers a connected experience for all sizes of businesses and their access needs.

myQ technology uses a 900Mhz signal to communicate securely from your connected devices to myQ enabled accessories or to a Wi-Fi network. A LiftMaster Internet Gateway model 828LM or a LiftMaster myQ® Home Bridge model 819LMB is required for Wi-Fi internet connectivity. (see Accessories page 10).

myQ APP

Download the myQ app and follow the on-screen prompts to connect your commercial products. The myQ app enables secure monitoring and control of Logic 5.0 operators and other myQ enabled accessories with a mobile device.

- Receive alerts about the status of a commercial door as email or push notifications on a mobile device.
- The myQ app is free and does not require an annual activation fee.
- Connected operators receive current firmware updates

myQ FACILITY MANAGEMENT

myQ Facility Management is a premium cloud-based platform to manage access for unlimited facilities, users and vehicles from anywhere. Monitor and control your vehicular access doors, gated entries and dock positions from a universal platform.

- Facility dashboards provide the right people visibility into all the facilities access points.
- Assign access to the facility based on a specific user role, device permissions, and scheduling.
- Notification management allows specific users visibility and insight into process related issues or when something is out of place.
- Commercial "Intelligence" reporting provides insight to schedule maintenance based on equipment usage (instead of calendar-based maintenance), identify energy savings opportunities, and monitor overall time related to access open times.
- A connected dock door operator provides complete visibility into dock operations including door event status, trailer presence, dock leveler status, truck restraint status, forklift sensing, and trailer location. Enhance overall efficiency at each dock position.

SETUP A myQ® SMART FACILITY MANAGEMENT ACCOUNT

NOTE: *If you have an existing myQ® account, your Smart Facility Mangement account will have the same password.*

1. Call LiftMaster Customer Care at 800.323.2276 to activate a Smart Facility Mangement account.

2. You will receive a welcome email from LiftMaster with instructions to register and login to your account.

3. Set up the facility and add users and groups to provide access to the facility (see the help in Smart Facility Management).

4. Follow onscreen prompts to get your Logic 5.0 Commercial Door Operator and additional devices connected.

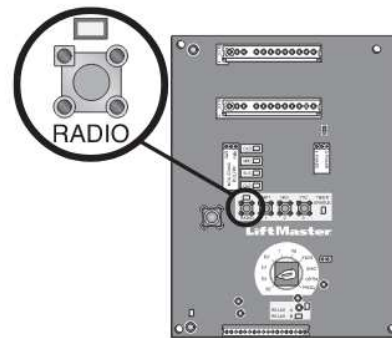**Visit myQ.com** for more information about LiftMaster's myQ connected solutions.

PROGRAMMING myQ DEVICES:

1. Press and release the RADIO button on the logic board to enter programming mode. The RADIO LED will light.

2. Place the myQ enabled device into learn mode, see the instructions for the device.

3. When programming is complete, the RADIO LED will turn off.

NOTE: *The operator will exit programming mode in 3 minutes if programming is not completed, and the RADIO LED will turn off.*

TO ERASE ALL myQ ENABLED DEVICES:

1. Press and release the RADIO button on the logic board (the RADIO LED will light).

2. Press and hold the MAS button for 5 seconds. The RADIO LED will flash for approximately 5 seconds and the RADIO LED will turn off.

All myQ enabled devices are now erased.

PROGRAMMING

⚠ WARNING

To prevent possible SEVERE INJURY or DEATH:
- Install a LiftMaster Monitored Entrapment Protection (LMEP) Device.
- NEVER wear watches or rings when opening or inside of the enclosure with power on.
- Avoid contact with any wiring or connection points inside of the enclosure.
- ALWAYS use only one hand inside of the enclosure when pressing buttons on the printed circuit logic board.

- NEVER permit children to operate or play with door control push buttons or remote controls.
- Activate door ONLY when it can be seen clearly, is properly adjusted and there are no obstructions to door travel.
- ALWAYS keep door in sight until completely closed. NEVER permit anyone to cross the path of closing door.

REMOTE CONTROLS

Built in 3-channel, Security+2.0® radio receiver allows you to add up to 90 remote control devices and up to 30 keyless entry devices.
NOTE: *The following programming requires a LiftMaster Monitored Entrapment Protection (LMEP) Device.*

SINGLE BUTTON REMOTE CONTROL

1 Press and release the RADIO button (RADIO LED will light).

2 Press and hold the remote control button until the RADIO LED flashes rapidly, then release remote control button. The RADIO LED will then remain on solid after releasing the button. Repeat to add additional remote control(s).

3 Press and release the RADIO button to complete the programming. The programming mode is exited if no activity is performed within 30 seconds.

3-BUTTON REMOTE CONTROL TO OPERATE AS A WIRELESS 3-BUTTON CONTROL STATION

NOTE: *The feature will use 3 of the 90 memory channels in the operator.*

1 Press and release the RADIO button on the logic board (the Radio LED will light).

2 Press and release the desired button on the logic board (OPEN, CLOSE or STOP). The Radio LED will flash and then stay on solid.

3 Press and hold the desired button of the remote control until Radio LED flashes rapidly, then release.

4 Press and release the RADIO button to complete the programming. The programming mode is exited if no activity is performed within 30 seconds.

Repeat steps 1 through 4 to program additional buttons.

TO ERASE ALL REMOTE CONTROLS

1 Press and hold the RADIO button on the logic board until the RADIO LED flashes rapidly (approximately 5 seconds). All remote controls will be erased.

NOTICE: To comply with FCC and/or Industry Canada (IC) rules, adjustment or modifications of this transceiver are prohibited. THERE ARE NO USER SERVICEABLE PARTS. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC rules and IC RSS-210. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003. This device must be installed in a way where a minimum 8" (20 cm) distance is maintained between users/bystanders and device.

PROGRAMMING

TIMER-TO-CLOSE

Feature: Timer automatically closes the door after preset time. All entrapment protection devices must be unobstructed.

Benefit: The door will automatically close after the preset amount of time. Great for apartment buildings, fire stations and other applications where the end user wants the door to close automatically after a specified amount of time.

Requirements: Must have at least one LiftMaster Monitored Entrapment Protection (LMEP) Device installed (refer to installation manual). Wiring type must be set to TS, T or FSTS.
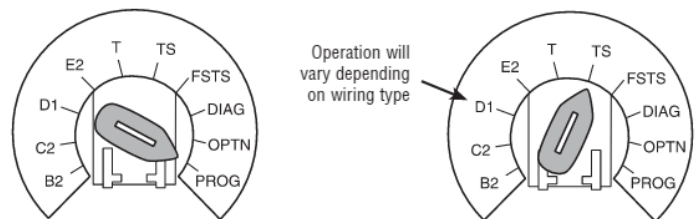
TO PROGRAM MANUALLY (METHOD 1):

1. Close the door.
2. Turn the selector dial to PROG.
3. Press and release the TIMER button on the logic board.
4. Press and release the STOP button to clear the timer.
5. Press and release the OPEN button for every second the operator should wait before attempting to close the door. Press and release the CLOSE button for every 15 seconds the operator should wait before closing the door.

6. Press and release the TIMER button to complete programming. The OPEN/CLOSE button LEDs will flash to confirm the timer setting. The OPEN LED will flash once for every second programmed and the CLOSE LED will flash once for every 15 seconds programmed.
7. Turn the selector dial to desired timer wiring type (TS ,T or FSTS).

Example: To close the door after 70 seconds. Turn selector dial to PROG, press and release the TIMER button, press and release the STOP button to clear the timer, press and release the CLOSE button four times for 60 seconds and press and release the OPEN button 10 times for 10 seconds. Press the TIMER button to finish programming the timer. Turn the selector dial to desired timer wiring type (TS, T, or FSTS).

SELECTOR DIAL

Operation will vary depending on wiring type
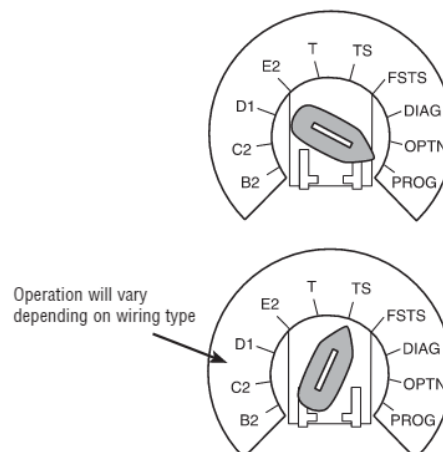
PROGRAM TIMER-TO-CLOSE BY EXAMPLE (METHOD 2):
TO PROGRAM:

1. Close the door.
2. Turn the selector dial to PROG.
3. Press and hold TIMER button for 5 seconds until OPEN and OLS flashes then release.
4. Press and release the OPEN button and wait for the door to reach full open or mid stop position.
5. Wait for desired amount of time to pass. (An internal stop watch starts counting when the door stops moving.)
6. Press and release the TIMER button, CLOSE button or STOP button to stop the timer. (TIMER SET LED will turn on.)
7. Turn the selector dial to the desired wiring type (T, TS, FSTS).

NOTE: *To read back the Timer-To-Close setting, turn the selector dial to DIAG and press the TIMER button. The OPEN LED will flash once for every second programmed and the CLOSE LED will flash once for every 15 seconds programmed.*

In T Mode, timer can be deactivated from the open position by pressing the STOP button. The timer will be reactivated on the next operation command. The STOP button WILL NOT deactivate the timer in the TS mode. To deactivate the timer for more than one cycle in T mode or in TS mode, attach a defeat switch to 11 and 12 (COMMON and TIMER DEFEAT).

SELECTOR DIAL

Operation will vary depending on wiring type

MANUAL RELEASE

⚠ WARNING

To prevent possible SERIOUS INJURY or DEATH from a falling door or arm:

• DO NOT stand under the door arm when pulling the emergency release.

• If possible, use emergency release handle to disengage trolley ONLY when door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.

• NEVER use emergency release handle unless doorway is clear of persons and obstructions.

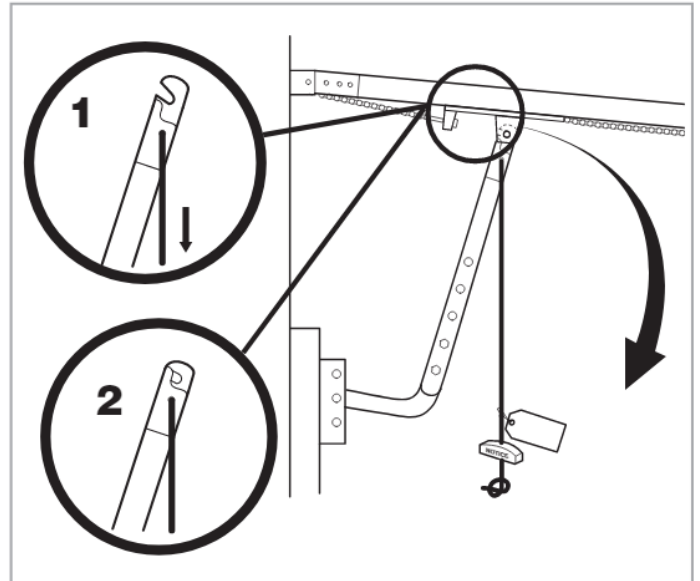## EMERGENCY DISCONNECT SYSTEM MODEL GT AND T

TO DISCONNECT DOOR FROM OPERATOR
The door should be in the fully closed position if possible.

1 Pull emergency release handle straight down. Emergency disconnect will open.

TO RECONNECT DOOR ARM TO TROLLEY

2 Lift free end of door arm to trolley. Pull emergency release handle to allow arm to engage roll pin. Release handle. Emergency disconnect will close.
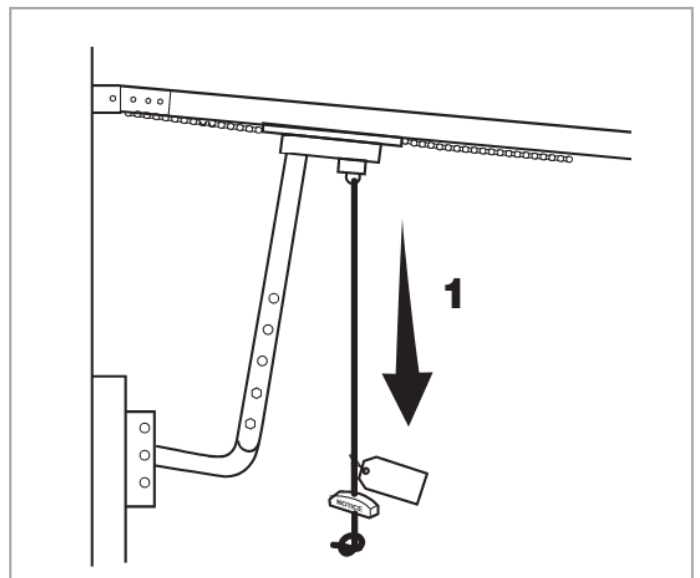
EMERGENCY DISCONNECT SYSTEM MODEL APT

TO DISCONNECT DOOR FROM OPERATOR
The door should be in the fully closed position if possible.

1 Pull down on the emergency release handle and raise or lower the door manually.

TO RECONNECT DOOR ARM TO TROLLEY

2 The trolley will reconnect on the next UP or DOWN operation, either manually or by using the door control or remote.

MANUAL RELEASE

EMERGENCY DISCONNECT SYSTEM
MODEL H, GH, J, AND HJ

This operator has provisions for manually operating the door in case of emergency or power failure. Refer to the appropriate instructions below for your model operator.

MODEL H AND GH

These operators are equipped with a manual hoist. An electrical interlock will disable the electrical controls when the hoist is used. To operate the hoist:

1 Pull the disconnect chain (sash chain) to engage the hoist mechanism. The disconnect chain may be locked in position by slipping the end through the keyhole of the chain keeper mounted on the wall.

2 Operate the door in the desired direction by pulling on one side or the other of the continuous loop hoist chain.

3 The disconnect chain must be released from the chain keeper before the door will operate again electrically.

MODEL J

This operator has a floor level disconnect chain to disconnect the door from the door operator.

1 To disengage, pull the disconnect chain (sash chain) and secure in the disengaged position by slipping the end through the keyhole bracket mounted on the wall.

2 The door may now be pushed up or pulled down manually.

3 Release the disconnect chain to operate the door again electrically.
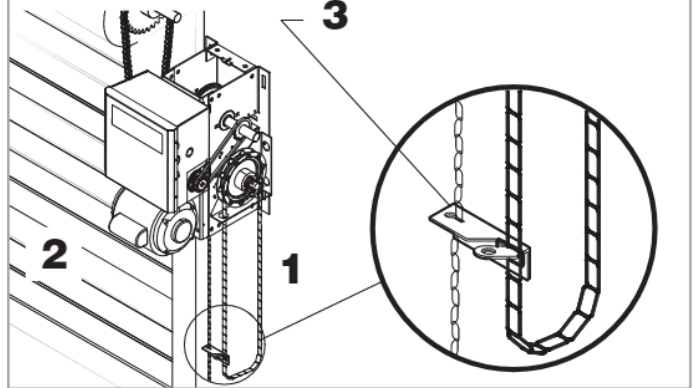
MODEL HJ

This operator includes both a floor level disconnect chain (sash chain) to disconnect the door from the door operator and a disconnect chain with manual hoist to electrically disable the operator controls.

1 Pull the disconnect chain to engage the hoist mechanism. The disconnect chain may be locked in position by slipping the end through the keyhole of the chain keeper mounted on the wall.

2 To disengage, pull the disconnect chain and secure in the disengaged position by slipping the end through the keyhole bracket mounted on the wall.

3 Operate the door in the desired direction by pulling on one side or the other of the continuous loop hoist chain.

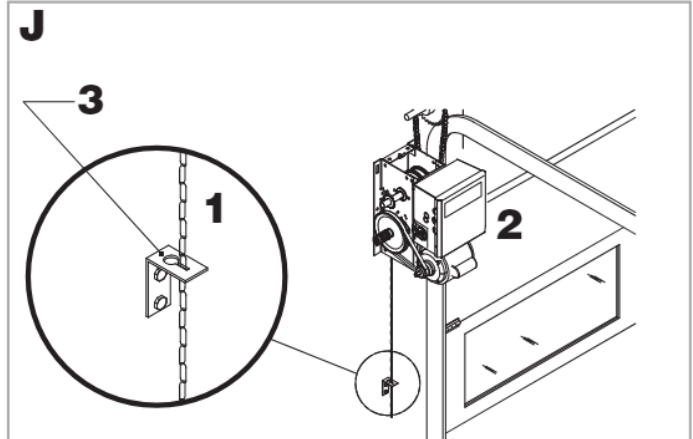**4** Release the disconnect chain to operate the door again electrically.

⚠CAUTION

To prevent possible SERIOUS INJURY from a moving chain:
- DISCONNECT electric power to the operator BEFORE manually operating your door.
- If possible, use emergency disconnect ONLY when door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
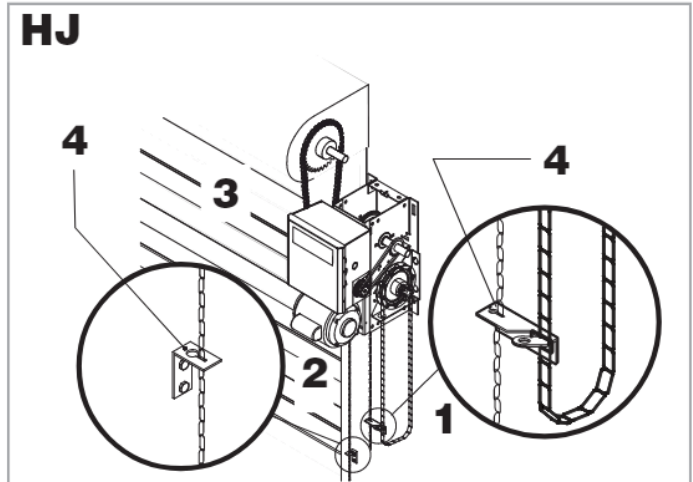- NEVER use emergency disconnect unless doorway is clear of persons and obstructions.

H and GH

J

HJ

TROUBLESHOOTING

To locate a dealer in your area visit us online at www.liftmaster.com.

CONDITION	POSSIBLE CAUSE	FIX
OPERATOR WILL NOT RESPOND TO ANY COMMANDS	No power	➤ Check circuit breaker.
	Accessory failure	➤ Verify photoelectric sensors are aligned.
	Possible component failure	➤ Contact your installing dealer.
OPERATOR MAKES NOISE BUT DOOR DOES NOT MOVE	Operator requires adjustment	➤ Contact your installing dealer.
DOOR DRIFTS AFTER OPERATOR STOPS	Operator or door requires adjustment	➤ Contact your installing dealer.
DOOR OPENS/ CLOSES TOO FAR	Operator requires adjustment	➤ Contact your installing dealer.
DOOR REVERSES UNEXPECTEDLY	Entrapment protection device activated	➤ Verify photoelectric sensors are aligned. If photoelectric sensors are aligned and operator still does not operate properly, contact your installing dealer.
RADIO FUNCTIONALITY		
NO RESPONSE	Remote control is not programmed	➤ See PROGRAMMING REMOTE CONTROLS section.
	Low battery	➤ Replace battery.
REMOTE CANNOT BE PROGRAMMED	Low battery	➤ Replace battery.
POOR RANGE	Low battery in remote	➤ Replace battery.
	Possible radio interference	➤ Contact your installing dealer.

MAINTENANCE SCHEDULE

⚠ ⚡ WARNING

To avoid SERIOUS personal INJURY or DEATH:
- Disconnect electric power BEFORE performing ANY adjustments or maintenance.

- ALL maintenance MUST be performed by a trained door systems technician.

Every 3 months or 5,000 cycles repeat all tests in the Testing section.

Call a trained door systems technician. To locate a dealer in your area visit us online at www.liftmaster.com.

The operator should be serviced at the following intervals:
- Every 3 months or 5,000 cycles
- Every 6 months or 10,000 cycles
- Every 12 months or 20,000 cycles

ACCESSORIES

ENTRAPMENT PROTECTION DEVICES

CPS-U — **Dual-Sided Infrared Photoelectric Sensors**
- NEMA 1 general purpose enclosure.
- Dual-sided infrared sensors.
- For indoor use.
- Maximum range of 30 feet (9.1 m).

CPS-UN4 — **Monitored Thru-Beam Photoelectric Sensors**
- Heavy-duty housing for industrial applications.
- NEMA 4 enclosure protects against direct spray.
- Dual-sided infrared sensors.
- For indoor/outdoor use.
- Maximum range of 45 feet (13.7 m).

CPS-RPEN4 — **Monitored Retro-Reflective Photoelectric Sensors**
- Polarized reflector for use in applications with highly reflective surfaces.
- NEMA 4X enclosure protects against direct water spray and corrosion.
- Retro-reflective sensor.
- For indoor/outdoor use.
- Maximum range of 50 feet (15 m).

CPS-OPEN4 — **Monitored Dual-Sided Photoelectric Sensors**
- Flexible housings maintain alignment in areas with a high propensity for sensor contact.
- NEMA 4X enclosure protects against direct water spray and corrosion.
- Dual-sided infrared sensors.
- For indoor/outdoor use.
- Maximum range of 45 feet (13.7 m).

Optical Edge System (OES)

OES-SD16 — **Optical Edge System**
16 feet (4.9 m) Sectional 2-Wire Door Edge Kit with infrared optical sensors, rubber door edge and all mounting hardware (channel sold separately).

OES-SD24 — **Optical Edge System**
24 feet (7.3 m) Sectional 2-Wire Door Edge Kit with infrared optical sensors, rubber door edge and all mounting hardware (channel sold separately).

OES-RD16 — **Optical Edge System**
16 feet (4.9 m) Rolling 2-Wire Door Edge Kit with infrared optical sensors, rubber door edge and all mounting hardware (door channel not required).

- Rubber door edge is durable, flexible and easy to install.
- Premium rubber can be cut to length for exact fit.
- NEMA 6 rating protects against moisture and standing water.
- Infrared optical sensors eliminate the need for electrical contacts.
- Maximum range of 33 feet (10 m).
- Sectional and rolling door edges are also available in 50 foot (15 m) bulk rolls, along with individual components for additional savings on large installation jobs.

CPS3CARD — **Safety Interface Card**
Plug-in Interface card enables use of a second set of monitored photo eyes or edge with a commercial door operator.

CPS-MEI — **Edge Interface 2-Wire Monitored**
For use with approved 2-wire edges.

CPS-EI — **Edge Interface 4-Wire Monitored**
For use with approved 4-wire edges.

NON-MONITORED

65-8202 — **Vehicle Detection System**
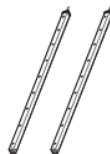Pneumatic Sensing Edge Kit with exterior air switch, 2-wire coil cord and 14 foot (4.3 m) air hose.

65-5202 — **Vehicle Detection System**
Pneumatic Sensing Edge Kit with exterior air switch, 2-wire take-up reel (20 feet [6 m] extended) and 14 foot (4.3 m) air hose.

LC-36A — **Light Curtain**
Non-monitored entrapment protection device that forms a 3-foot cross-pattern of invisible light beams for maximum property protection. (See also 100MAPS.)

100MAPS — **Plug-In Power Supply**
Provides power to the LC-36A Light Curtain.

ACCESSORIES

myQ ACCESSORIES

828LM

LiftMaster® Internet Gateway
Enables owners of Commercial Door Operators to open and close their doors and turn on/off lights in or around their facility using a mobile device or computer from anywhere in the world.

819LMB

myQ® Home Bridge
Utilizes smartphone control to myQ enabled products that don't have built in Wi-Fi and controls your garage doors or lights from anywhere. Also enables secure in-garage delivery for Amazon Prime packages.

829LM

Garage and Gate Monitor
Monitor open/closed status for up to 4 myQ compatible commercial door openers or gate operators and close them from anywhere.

825LM

Remote Light Control
Automatically control your lights using your commercial door opener, a Security+ 2.0® remote control or a LiftMaster® Internet Gateway. Plugs into any interior outlet.

REMOTE CONTROLS WITH SECURITY+ 2.0® AND CONNECTIVITY

811LM

Encrypted DIP Switch Single-Button Remote Control
Ideal for commercial door applications requiring a large number of remotes for a common space.

813LM

Encrypted DIP Switch Three-Button Remote Control
Includes Red, Yellow and Green markings which Indicates Open, Close, Stop.

877LM

Wireless Keypad
Able to be programmed with temporary access codes for visitors or delivery personnel.

RADIO

STAR1000

Commercial Access Control Receiver
Connects up to 1000 LiftMaster® remote controls. Supports suspending and unsuspending remote controls to withhold and reinstate access.

850LM

Universal Receiver
Featuring Security+ 2.0® technology. Designed for both gated communities and commercial buildings to support and manage multiple access points multiple remote controls.

CONTROL STATIONS

02-101

1-Button Control Station
Steel enclosure.

02-102

2-Button Control Station
Steel enclosure.

02-103L

3-Button Control Station
Steel enclosure with Maintenance Alert System.

02-110

Key Control Station
Indoor flush mount, NEMA 1 with Stop button.

02-401M

1-Button Control Station
Indoor/outdoor surface mount, single button to activate opening one commercial door.

ACCESSORIES

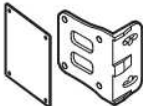## MOUNTING BRACKETS

10-12360

Heavy gauge steel bracket for vertical or horizontal mount on either front or top of coil on a rolling door. Has a variety of mounting hole patterns compatible with many OEM manufacturers. For use with J, H, DJ, and DH operators. May be welded.

08-9098

Cast iron bracket to mount J, H, DH, DJ, and GH side mount operators on end bracket of a rolling door or grill. For vertical or horizontal mount on either front or top of coil. Cannot be welded.
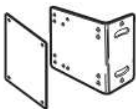
08-9098EZ

Same as 08-9098, but with adapter plate to hold mounting bolts in place for easy mounting.

1A4324

Heavy gauge steel bracket for vertical or horizontal mount on either front or top of coil on a rolling door. May be welded. For use with J, H, DJ, and DH operators.

1A4324EZ

Same as 1A4324, but with adapter plate to hold mounting bolts in place for easy mounting.

CHAIN TENSIONERS —————— For Jackshaft Type Operators

71-6023

For 1" (2.5 cm) shafts. Recommended to properly tension drive chain between operator shaft and door shaft.

71-6125

Same as 71-6023, but for 1-1/4" (3.2 cm) shafts.

OPTION CARDS

TLS1CARD

Timer Light Status Card
The TLS option card provides special functionality to activate and flash auxiliary devices such as lights, bells, and horns/strobes at various door positions, and to provide special timer functions.

AUXCARD

Auxiliary Contact Card
The Auxiliary Contact option card has both Normally-Open and Normally-Closed contacts that actuate when the door is idle, opening, or closing.

ADDITIONAL CONTROL ACCESSORIES

86LM (15' [4.6 m])
86LMT (25' [7.6 m])

Antenna Extension Kit
The antenna extension kit can be used with EXT-ANT for maximum radio receiver range.

RGL24LY

Red/Green Traffic Light
Indicates when a commercial door reaches the open position. Provides assurance of safe entering and exiting of the facility, reducing the potential for costly accidents. (TLS1CARD is recommended)

RGL-CTL

Red/Green Traffic Light-Compact
Similar to RGL24LY function, but high-intensity LEDs and fully sealed enclosure. Ideal for single lane operations that require focused visibility.

50-HERK2

Motion Detector 24V
Microwave motion detector with two independently programmable channels.

50450

Switch Sectional Door Interlock
NEMA 4 switch disables operator control circuit when door is locked preventing electrical operation of the door.

01-39049C