JDC/JHDC Installation (continued)

Mount the Operator

The wall or mounting surface MUST provide adequate support for the operator.

The surface must:

- Be rigid to prevent play between the operator and the door shaft.
- Provide a level base.
- Permit the operator to be fastened securely and with the drive shaft parallel to the door shaft.
- 1. Mount the operator to the wall or mounting plate with the appropriate hardware (not supplied).
- 2. Place the door sprocket on the door shaft.
- 3. Wrap the drive chain around the door sprocket and the drive sprocket then secure with the master link.
- 4. Align the door and the drive sprockets. Insert keys and fasten the sprockets with the set screws (recommended torque for the set screws is 34-45 in/lb).

NOTE: It is highly recommended to add a thread adhesive to secure the set screws in place.



Secure the Chain Hoist

1. Fasten the door retaining bracket 4 feet (1.2 m) above the floor.

NOTE: If the position of the operator causes the hand chain to hang in the door opening hook the chain to the side near the top of the door jamb.



Cable Tension Monitors

Install the Cable Tension Monitor(s) (Optional)

TWO CABLE TENSION MONITORS MAY BE CONNECTED TO THIS OPERATOR.

THE CABLE TENSION MONITORS DETECT ANY SLACK THAT MAY OCCUR IN THE CABLES AND WILL RESPOND ACCORDINGLY.

NOTE: ONLY USE THE LIFTMASTER CABLE TENSION MONITORS, AS THEY HAVE BEEN TESTED AND APPROVED FOR THIS SYSTEM. See "Accessories" on page 52.

- Make sure the door cable is approximately 1"-2" (25-50 mm) from the mounting surface. Door adjustments or shimming may be required to achieve proper depth for the door cable. The bracket must be flush with the mounting surface.
- Position the cable tension monitor as close to the drum as possible. The optimal distance of the cable from the wall surface is no more than 2.5" (6.35 cm), and be sure the roller extends 1/8"-1/4" past the cable. Make sure the cable tension monitor and roller is free from any obstructions in all positions of operation.

NOTE: There must be no obstructions in the installation area that prevent the cable tension monitor from closing completely when slack is detected.

NOTE: Cable tension monitors must either be anchored to concrete, or a wood stud with appropriate fasteners. If neither are available, toggle bolt style drywall anchors with at least a 50 lbs rating are acceptable.

- 3. Run bell wire to the door operator junction box, and down to the control box through conduit as shown on the right.
- 4. Once the controller is installed, connect the bell wires parallel to the CTM and CMN terminals on the terminals on the controller (polarity is not important). See "Wall Controller Installation" on page 22 for installation information. Once installed, follow these steps to connect the wiring.
- 5. Connect the bell wires in parallel to the CTM and CMN terminals on the controller (polarity is not important). To simplify installation, the cable tension monitors can be wired together in the operator junction box, with only one pair of bell wires running down to the controller.

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6. Repeat steps 1-5 for the opposite side of the door. Both cable tension monitors must be installed for proper operation.

NOTE: Cable must have tension through entire door travel. Make sure there is no slack in cable on opposite side of door during normal operation. If slack occurs during door travel, adjust cables as required.









Manual Release

Emergency Disconnect System Model TDC

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

 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.



A WARNING

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

- DISCONNECT electric power to the operator BEFORE manually operating your door.
- DO NOT stand under the door arm when pulling the emergency release.
- 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 release handle unless doorway is clear of persons and obstructions.

Emergency Disconnect System Model JHDC

These operators have provisions for manually operating the door in case of emergency or power failure. These operators are equipped with a manual hoist. An electrical interlock will disable the electrical controls when the hoist is used.

This operator includes Engage rope (green) and a disengage rope (red) with manual hoist to electrically disable the operator controls.

- 1. To disengage, pull the disconnect rope (red).
- 2. Operate the door in the desired direction by pulling on one side or the other of the continuous loop hoist chain.
- 3. Pull the engage rope (green) to operate the door again electrically.

OPERATE A MANUAL HOIST

1. Pull down on the hoist engagement rope, engaging the hoist/interlock.

NOTE: F96 SAFETY CIRC will be displayed.

- 2. Operate the door in the desired direction by pulling on one side or the other of the continuous loop chain.
- To restore standard electrical operation to the operator, pull the hoist disengagement rope to disengage the hoist/interlock.



Wiring

WARNING

To prevent possible SERIOUS INJURY or DEATH:

- ANY maintenance to the operator or in the area near the operator MUST NOT be performed until disconnecting the electrical power and locking-out the power. Upon completion of maintenance the area MUST be cleared and secured, at that time the unit may be returned to service.
- Disconnect power at the fuse box BEFORE proceeding. Operator MUST be properly grounded and connected in
 accordance with national and local electrical codes. The operator should be on a separate fused line of adequate
 capacity.
- ALL electrical connections MUST be made by a qualified individual.
- DO NOT install ANY wiring or attempt to run the operator without consulting the wiring diagram.
- ALL power wiring should be on a dedicated circuit and well protected. The location of the power disconnect should be visible and clearly labeled.
- ALL power and control wiring MUST be run in separately.

Power and Ground

Power and control wiring must be run in separate conduit to comply with national and local electrical codes. For power wiring, use the appropriate wire gauge. Use conduit knockouts, conduit fittings, and appropriate conduit fittings for wiring as indicated on the electrical box label.

- 1. Open the operator cover.
- Run power wires to electrical box according to national and local electrical codes. ON THREE PHASE POWER only use two of the power legs cap off the third leg: Incoming power leads go to L1 and L2. Ground is on the EMI board.
- Attach power and ground wires to appropriate terminals. Incoming power leads go to L1 and L2. Ground is on the EMI filter board.

NOTE: The operator must be properly grounded. Failure to properly ground the operator could result in electric shock and serious injury.

* Maximum wire gauge that can be connected to the operator's terminal is 12 AWG. When a larger wire gauge is required, the wire must be gauged down to 12 AWG. USE COPPER WIRE ONLY.

Voltage Selection

- Locate EMI filter board inside of the electrical box (there is one board for 120/240V and one board for 480V). Remove the sticker and plug in the connector to either the 120V or 240V depending on your line voltage. Replace the sticker once you have plugged your connector into the right location.
- On the POWER BOARD find the appropriate receptacle matching the incoming line voltage. Remove the voltage label and apply to the inside of the electrical box for future reference. Insert the EMI power harness fully until locked in place.





Wall Controller Installation

WARNING

To prevent possible SERIOUS INJURY or DEATH from electrocution:

• Be sure power is NOT connected BEFORE installing the door control.

- To prevent possible SERIOUS INJURY or DEATH from a closing door:
- Install the door control within sight of the door, out of reach of small children, at a minimum height of 5 feet (1.5 m) above landings, steps, or any other adjacent walking surface, and away from ALL moving parts of the door.
- Install the control station far enough from the door to prevent the user from coming in contact with the door while operating the controls.
- Install the entrapment warning placard on the wall next to the control station in a prominent location visible from the door.
- NEVER permit children to operate or play with door control push buttons or remote controls.
- Activate a door ONLY when it can be seen clearly, is properly adjusted and no obstructions exists in the path the
 door will travel.
- ALWAYS keep the door in sight until completely closed. NEVER permit anyone to cross path of a closing door.

NOTE: The field wiring terminals are rated for 14-22 AWG wire Stranded and 12-22 AWG Solid.

- 1. Remove wall control cover from mounting bracket by loosening the four Philips screw at each corner of the housing.
- Using appropriate mounting hardware (not supplied), fasten the mounting bracket to the wall near the operator and at least 5 feet (1.5m) above floors, landings, steps, or any other adjacent walking surface.
- Select the appropriate knockout and run the wires to the operator (in accordance with national and local electrical codes).
- Connect wires to the wall controller (wall controller wires are NOT polarity sensitive) and reinstall the wall controller cover.
- 5. Fasten the entrapment warning placard next to the wall control.











Factory Wiring Diagram





Factory Wiring Diagram (continued)



Accessory Wiring Diagram



Power Wiring Diagram



Plug transformer connector into the appropriate voltage that matches the applied AC voltage

120V AC or 240V AC



Optional Accessories: AUX Relay Card and Loop Detector.



Entrapment Protection

Monitored Entrapment Protection

IMPORTANT INFORMATION ABOUT THE MONITORED ENTRAPMENT PROTECTION DEVICES

A monitored entrapment protection device is required for most operation modes (see "Monitored Eyes/ Edge Configuration" on page 32). If a monitored entrapment protection device is not installed, constant pressure to close will be required from the wall controller.

See "Accessories" on page 52 for a complete list of monitored entrapment protection devices.

Three EYE/EDGE terminals are provided. Each terminal can accept ONE device. For easy identification during installation, the correct terminals are yellow.



WARNING

To prevent possible SERIOUS INJURY or DEATH from a closing door:

- Be sure power is NOT connected to the door operator BEFORE installing the photoelectric sensor(s).
- The door MUST be in the fully opened or closed position BEFORE installing the LiftMaster Monitored Entrapment Protection Device(s).

To prevent SERIOUS INJURY, DEATH, ENTRAPMENT, or PROPERTY DAMAGE:

- Correctly connect and align the photoelectric sensor.
- Install the primary monitored photoelectric sensor beam NO HIGHER than 6" (15 cm) above the floor.
- This is a required LMEP Device for B2, TS, T, and FSTS wiring types and MUST NOT be disabled.
 For D1, C2, and E2 wiring the installation of an entrapment protection device is recommended.
- LiftMaster Monitored Entrapment Protection
 Devices are for use with LiftMaster Commercial
 Door Operators ONLY. Use with ANY other product
 voids the warranty.
- If an edge sensor is being used on a horizontal slide door,place one or more edge sensors on both the leading and trailing edge.
- If an edge sensor is being used on a vertical moving door,place edge sensors on the bottom edge of the door.



Entrapment Protection (continued)

Install the Monitored Light Curtain

This step includes directions to install one set of monitored light curtains as a standalone primary entrapment protection device.

The mounting brackets must be securely fastened to a solid surface such as a wall framing. If installing the mounting brackets in masonry construction, add a piece of wood at each location to avoid drilling extra holes in the masonry.

NOTE: If the Monitored Light Curtain is installed with coil cord, the coil cord needs to be secured so it will not interrupt the light beams.

- 1. Fasten the mounting brackets loosely to both Monitored Light Curtain with the screws provided.
- 2. Measure a maximum of 6 inches above the floor. Mark this location. The lowest optical sensor of the Monitored Light Curtain must be installed at or below this point. In this application, in order to assure that the lowest optical sensor is mounted no higher than 6" above the ground, the light curtain wires must be oriented at the top of the light curtain in this application.
- Hold the Monitored Light Curtain up to the desired mounting location with the cable end pointing upward. Secure the bottom mounting bracket to the mounting surface.
- 4. Make sure the Monitored Light Curtain is level and secure the upper mounting bracket to the mounting surface.
- 5. Tighten the screws to secure the Monitored Light Curtain to the mounting bracket.
- 6. Secure the other Monitored Light Curtain to the opposite side of the door following steps 2–5, making sure they are aligned.
- 7. Run wires to the operator.
- 8. Twist like colored wires together, brown to brown and blue to blue.

POWER WIRING

Do not run wiring in the same conduit with AC power.

- 1. Disconnect power to the operator.
- 2. Connect the wires from the Monitored Light Curtain LC36M to the following.
 - d. Brown wire to + Aux24 power
 - e. Blue wired to Aux24 CMN
 - f. White wire to eye/edge input –
 - g. Black wired to eye/edge input +
- 3. Reconnect power to the operator.

ALIGNMENT

The Monitored Light Curtain transmitter and receiver must be aligned. When properly wired and aligned the amber and green LEDs will be ON. The amber LED is located on the Monitored Light Curtain Transmitter and the green LED is located on the Monitored Light Curtain Receiver. If the amber and green LEDs are not on, see the table below.

1. Open and close the door for one complete cycle to let the operator register the Monitored Light Curtain.

Amber LED	Green LED	Status	Solution
OFF	OFF	No power	Check wiring.
ON	Blinks	 Monitored Light Curtain receiver and transmitter are not aligned Obstructed light beam Defective Monitored Light Curtain Receiver 	 Adjust the Monitored Light Curtains to correct alignment Remove the obstruction Replace Monitored Light Curtain receiver and transmitter (Model LC36M)

NOTE: For more detailed information, please refer to Monitored Light Curtain manual 114-5541.



To prevent possible product damage and incorrect operation:

- NEVER scratch or paint the optical sensors.
- DO NOT drill ANY additional holes into the Monitored Light Curtain.
- Correctly connect and align the Monitored Light Curtain transmitter and receiver.
- DO NOT bend or twist the Monitored Light Curtain.
- Oil may damage the Monitored Light Curtain cable so contamination MUST be avoided at ALL times.
- DO NOT mount the Monitored Light Curtain where sunlight or other external infrared light sources will shine directly into the optical sensors of the Monitored Light Curtain receiver. If necessary, switch the mounting side of the Monitored Light Curtain transmitter and receiver.

Battery Backup Wiring

- 1. Locate the Battery Box and the Red/Black wires.
- 2. Remove the circular knockout at the bottom of the E-Box, above the EMI Filter Board. Install a grommet.
- 3. Route the Red/Black wires through the grommet.
- 4. Install the Battery Box on the Operator.
- 5. Plug the Red wire into the Battery (+) Terminal.
- 6. Plug the Black wire into the Battery (-) Terminal.

Testing

Apply power to the operator. When power is applied to the operator, the LCD display will illuminate, relay A, relay B, and the Timer Defeat.

Test all Entrapment Protection Devices

It is the responsibility of the specifier, purchaser, installer, and property owner to ensure that, on completion, the installation of the entrapment protection devices comply with all relevant federal, state, and local codes and regulations.

TEST THE MONITORED LIGHT CURTAIN (IF APPLICABLE)

- 1. With the door in the full open position, press the close button.
- 2. While the door is closing, obstruct any of the light beams on the Monitored Light Curtain (the green LED on the Monitored Light Curtain Receiver will blink when the light beam is obstructed). The door should stop and reverse.

TEST THE PHOTOELECTRIC SENSORS (IF APPLICABLE)

- 1. Open the door.
- 2. Place an obstruction in the path of the photoelectric sensors. The LMEP LED will blink on the logic board.
- 3. Press and hold the CLOSE button. The door should not close.
- 4. Remove the obstruction.
- 5. Press and hold the CLOSE button. Door should close. If the LMEP is activated while closing, the door should reverse.

TEST THE EDGE SENSORS (IF APPLICABLE)

- 1. Open the door
- 2. Place an obstruction in the path of the door.
- 3. Press and release the CLOSE button. The door should stop and/or reverse.
- 4. Remove the obstruction. Press and release the CLOSE button. The door should fully close.

Test Wall Controller Menu Access

- 1. Press OPEN button. (The door should move in the open direction.)
- 2. Press STOP button. (The door should stop.)
- 3. Press and hold the CLOSE button. (The door should move in the close direction.)
- Release CLOSE button. Door should stop if in C2 or D1 mode. Door will reverse to full open position in E2 mode. The door should continue closing in all other modes.
- 5. Press STOP button. (The door should stop.)

Test Limit Adjustment

- 1. Press OPEN button. (The door should open.)
- 2. Allow the door to fully open.
- 3. Press and hold the CLOSE button. (The door should close.)
- 4. Allow the door to fully close.
- 5. If the limits are not set properly, remove power and adjust limits (see "Set Limits" on page 32).

NOTE: Door travel should stop when the OPEN or CLOSE limits are reached. If door drifting is occurring, spring tension on the door.



To avoid SERIOUS personal INJURY or DEATH:

- Disconnect electric power BEFORE performing ANY adjustments or maintenance.
- ALL maintenance MUST be performed by an Authorized Service Technician.

Programming

Quick Start Commissioning

Follow the below instructions to provision the JHT operator out-of-the-box or after factory reset:

Quick Start Commissioning Menu

Follow device menu prompt to select DOOR HANGING

Follow device menu prompt to select DOOR DRUM

Follow device menu prompt to select DOOR SPROCKET (J/H ONLY)

Follow device menu prompt to set OPEN LIMIT

Follow device menu prompt to set CLOSE LIMIT

Follow device menu prompt to LEARN WIFI

The operator will be in WiFi Learn Mode for 10 minutes if "YES" is selected.

A WARNING

To prevent possible SERIOUS INJURY or DEATH:

- Disconnect electric power BEFORE performing ANY adjustments or maintenance.
- ALL maintenance MUST be performed by a trained door systems technician.
- Please wait several seconds for capacitors to discharge and for display to go out.



Manual Commissioning Program Flow

IMPORTANT: All entrapment protection devices will be disconnected during the manual commissioning steps.

The System Settings menus are password-protected.

ENTER PROGRAMMING

- 1. Press the "STOP/ENTER" and "DOWN" buttons on the inside of the controller at the same time for 3+ seconds to enter the operator menu. If the controller is closed, press the "Stop" then "Close" then "Open" until the unit goes into program mode.
- Scroll down to "SYSTEMS SETTINGS" with the "UP" and "DOWN" buttons and press "ENTER." You will be prompted to enter the password for the operator.
- 3. Enter 326 as the password.



SELECT DOOR SETTINGS

- To select Door Hanging and Cable Drum settings, navigate to the SYSTEM SETTINGS > DOOR SETTINGS submenu.
- Select The Drum Type. Correct Drum types are needed for the correct door profile to run the system. Standard lift drum choices are: D400-144, D525-216
 Full vertical lift drum choices are: d850-132, D1100-216
 High lift choices are: 48° HL, D400-54, D525-54, 60 ° HL: D5575-120, 144 ° HL: D6375-165

IMPORTANT: Once you choose your drum, allow inverter parameter to update. Once the inverter is updated, you can re-enter the menu to set limits and learn force.

SET LIMITS

IMPORTANT: When setting limit positions, it is important that the door runs in the direction of the intended limit. Example: When setting the close limit, only use the CLOSE button. When setting the open limit, only use the OPEN button. Using the opposite direction button will cause the limit positions to drift over time.



MONITORED EYES/EDGE CONFIGURATION

If monitored entrapment protection devices are wired to the system during the initial power-up, they will be learned to the system, and the operating mode will automatically switch to B2.

If no monitored sensor is attached, the system will default to C2 mode. To manually program an entrapment protection device, navigate to the SYSTEM SETTINGS > MONITORED EYES/EDGES submenu, otherwise it will Auto-Learn the monitored device.



OPERATION MODE (RECOMMENDED)

To change the operating mode from the defaults B2 or C2, navigate to the SYSTEM SETTINGS > OPERATION MODE submenu.



CONNECTIVITY (RECOMMENDED)

To connect the operator to a network, navigate to SYSTEM SETTINGS > CONNECTIVITY > LEARN > LEARN WIFI submenu. See the "myQ[®] Smart Facility Access" on page <?> to connect your devices to myQ[®] Business Facility.



Hold ENTER and DOWN for three seconds to open the System Information Menu.

NOTE: This menu tree is only for informational purposes. These settings cannot be changed by the user.



Operating Modes

This operator is programmed to function in one of four different operating modes. See the rest of this section for more detailed information.

B2 MODE

- Works with buttons on wall controller, myQ Facility[®], wired 3-Button Wall Controller, and 3-Button Transmitter; momentary to open, stop,and close.
- Works with Single Button Control and Single Button Transmitter; momentary to open, stop, close, and stop & reverse.
- A Monitored Entrapment Protection device is required to be connected for downward movement. Monitored Safety devices are Auto-Learned or manually configured through the wall control menu..
- A Monitored Entrapment Protection device activation will reverse the door to its Open limit. An activated Monitored Entrapment Protection device can be overridden with 5 seconds of constant pressure on the Close button.

Timer To Close is available in B2 Mode with two settings. The user can select a desired Timer to Close (TTC) timer under the Timers menu. See [XXX] for Timer setting details.

In B2 the Car Dealer feature is available. The Car Dealer input (typically a treadle switch, loop detector, or motion sensor) will open the door to mid-stop, and TTC will be enabled. Repeated Car Dealer Input will not open the door beyond the mid-stop and will reset the TTC timer. TTC can be set either to one time close or timer secure

In B2 the All Fly feature is available. (FSTS Mode)

- The All Fly input (typically a mushroom button) will open the door to its Open limit, bypassing a mid-stop, and TTC will be enabled.
- The CLOSE button immediately closes the door.
- The STOP button resets the TTC timer (held button will pause, releasing the button will reset).
- The OPEN button resets the TTC timer.
- The controller will make infinite attempts to close the door until the safety obstruction is cleared.
- TTC will be enabled after Monitored Entrapment
 Protection activation reverses the door to its Open
 limit.
- Timer Defeat Input will stop TTC timer

B2 / T ONE TIME CLOSE)

- After the TTC timer elapses operator will close the door.
- TTC Timer will be active at the Open Limit or at a defined mid-stop.
- The CLOSE button immediately closes the door.
- The STOP button cancels the TTC for that cycle (no automatic motion).
- The OPEN button resets the TTC timer.
- TTC will be disabled if the door reverses from an obstruction.
- Timer Defeat Input will stop the TTC timer

B2 / TS (TIMER SECURE)

- After TTC timer elapses operator will close door.
- TTC Timer will be active anywhere above close limit. The CLOSE button immediately closes the door.
- The STOP button resets the TTC timer (held button will pause, release resets)
- The OPEN button resets the TTC timer.
- LMEP activation resets the timer
- TTC will be enabled after Monitored Entrapment Protection device activation reverses the door to its Open limit. The controller will make infinite attempts to close the door until it reaches close limit.
- Timer Defeat Input will stop the TTC timer

C2 MODE (DEFAULT)

- Works with buttons on wall controller, wired 3-Button Wall Controller, and 3-Button Transmitter*; momentary to open, stop, and constant pressure to close.
- Works with Single Button Control and Single Button Transmitter*; momentary to open, stop, and stop & reverse.
- Works without a Monitored Entrapment Protection device learned, but can operate if a Monitored Entrapment Protection device is learned and connected for downward movement.
- Monitored Entrapment Protection device activation will reverse the door to its Open limit. The safety activation can be overridden with 5 seconds constant pressure on the Close button.

*Constant Pressure to Close is not available from a remote control device (transmitter or myQ® Business™).

Determine Operating Mode

Read the descriptions of the different wiring types to determine which setting will be correct for each application. Once the wiring type is determined, set the selector dial accordingly.

LIFTMASTER MONITORED ENTRAPMENT PROTECTION (LMEP) DEVICE IS REQUIRED

A LiftMaster Entrapment Protection Device is required for the following wiring types.

B2

Momentary contact to open, close and stop, plus wiring for sensing device to reverse and auxiliary devices to open and close with open override. Programmable mid stop available with this wiring type. Compatible with 3-Button Station, 1-Button Station, 1 and 3-Button Remote Control.

B2 / T

Momentary contact to open, close, and stop, with open override and Timer-To-Close. Every device that causes the door to open, except any sensing edge input device, activates the Timer-To-Close. Auxiliary controls can be connected to open input to activate the Timer-To-Close.

If the Timer-To-Close has been activated, the open button and radio control can recycle the timer. The stop button will deactivate the timer until the next command input. The Timer-To-Close will function from the programmable mid stop with this wiring type. Compatible with 3-Button Station, 1-Button Station and 1 and 3-Button Remote Control.

NOTE: Programmable "Car Dealer Mode" available.

B2 / TS

This mode will attempt to close the door from any position except when fully closed, or when a safety input is present. The stop button will not disable the Timer-To-Close at any position. To disable the Timer-To-Close in this mode, installation of a defeat switch is required (see "Power Wiring Diagram" on page 26).

Momentary contact to open, close, and stop with open override and Timer-To-Close. Every device that causes door to open, including a reversing device, activates the Timer-To-Close. Auxiliary controls can be connected to open input to activate the Timer-To-Close. If the timer has been activated, the open button and radio control can recycle the timer. The Timer-To-Close will function from the programmable mid stop with this wiring type. Compatible with 3-Button Station, 1-Button Station and 1 and 3-Button Remote Control.

NOTE: A Programmable "Car Dealer Mode" available.

FSTS

Momentary button contact for open, close and stop programming. User set mid stop. User set Timer-To-Close. The single button station opens the door to the full open limit bypassing the mid stop and activates the

Timer-To-Close, putting the operator in B2/TS mode until the door reaches the down limit, or is stopped in travel. At which time the operator enters the B2 mode. Compatible with 3-Button Station, 1-Button Station, 1 and 3-Button Remote Control. A 1-Button remote control in FSTS mode will open only with the Timer-To-Close, bypassing a programmed mid stop. The Timer-To-Close will reset and reverse when closing.

LIFTMASTER MONITORED ENTRAPMENT PROTECTION DEVICE IS RECOMMENDED.

A LiftMaster Entrapment Protection Device is recommended for the following wiring types.

C2

Momentary contact to open and stop with constant pressure to close, open override plus wiring for sensing device to reverse. Programmable mid stop available with this wiring type. Compatible with 3-Button Station and 1-Button Station.

E2

Momentary contact to open with override and constant pressure to close. Release of close button will cause door to reverse (roll-back feature) plus wiring for sensing device to reverse. Compatible with 3-Button Station.

D1

Constant pressure to open and close with wiring for sensing device to stop. Compatible with 2 or 3-Button Station.

IMPORTANT NOTES:

- 1. External interlocks may be used with all functional modes.
- Auxiliary devices are any devices that have only dry contacts. Examples: loop detector, pneumatic or electrical treadles, radio controls, one button stations, pull cords, etc.
- 3. Open override means that the door may be reversed while closing by activating an opening device without the need to use the stop button first.
- 4. When the door is in a stopped position other than fully closed, and an LMEP or EDGE input is activated, the Restricted Close(RC) feature will allow a close command when the close button is pressed and held. The operator will begin closing after 5seconds. If the close button is released the door will stop. When in E2 mode, the door will move to the fully open position.

Determine and Set Operating Mode

Select the operating mode for your application from the menu in the Wall Controller.

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
			Operator at OPEN limit	No change in state
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
		OPEN button	Door opening	No change in state
		momentarily	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
		linomentarity	Door at Open Mid-Stop	Door opens to the OPEN limit
			Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop
			Operator at OPEN limit	Door closes to the CLOSE limit
		CLOSE	Operator at CLOSE limit	No change in state
		button is	Door opening	No change in state
		pressed	Door closing	No change in state
		momentarily	Door at Open Mid-Stop	Door closes to the CLOSE limit
			Door stopped during open or close cycle	Door closes to the CLOSE limit
			Operator at OPEN limit	No change in state
B2 -	Front nanel	STOP button	Operator at CLOSE limit	No change in state
Momentary	buttons	is pressed	Door opening	Door stops
contact to	(membrane)	momentarily	Door closing	Door stops
open,close	and 3-Button	-	Door at Open Mid-Stop	No change in state
and stop, plus	Wall		Door stopped during open or close cycle	No change in state
wiring for	Controller		Operator at OPEN limit	No change in state
to reverse		OPEN button	Operator at CLOSE limit	Door opens to the OPEN limit (bypasses Mid- Stop)
devices to		is held	Door opening	No change in state (bypasses Mid-Stop)
open and		(constant	Door closing	Door will auto reverse to OPEN limit (bypasses Mid-Stop)
close with		pressure)	Door at Open Mid-Stop	Door opens to the OPEN limit
Programmable			Door stopped during open or close cycle	Door opens to the OPEN limit (bypasses Mid- Stop)
available with			Operator at OPEN limit	Door closes to the CLOSE limit
this wiring		CLOSE	Operator at CLOSE limit	No change in state
type. Close Mid		button	Door opening	No change in state
Stop available		is held	Door closing	No change in state
but not shown		(CONSTANT	Door at Open Mid-Stop	Door closes to the CLOSE limit
in table.		procedurey	Door stopped during open or close cycle	Door closes to the CLOSE limit
Compatible		1	Operator at OPEN limit	No change in state
With 3-Button		ODENLIS	Operator at CLOSE limit	Door opens to closest OPEN limit or Mid-Stop
1-Button		OPEN button	Door opening	No change in state
Station, 1		momentarily	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
and 3-Button		momentarity	Door at Open Mid-Stop	Door opens to the OPEN limit
Remote			Door stopped during open or close cycle	Door opens to the OPEN limit
Control.	3-Button		Operator at OPEN limit	Door closes to the CLOSE limit
Monitored	Remote	CLOSE	Operator at CLOSE limit	No change in state
Entrapment	Control	button is	Door opening	No change in state
Protection	Programmed	pressed	Door closing	No change in state
required	as OPEN/	momentarily	Door at Open Mid-Stop	Door closes to the CLOSE limit
required.	CLUSE/STOP		Door stopped during open or close cycle	Door closes to the CLOSE limit
			Operator at OPEN limit	No change in state
		STOP button	Operator at CLOSE limit	No change in state
		is pressed	Door opening	Door stops
		momentarily	Door closing	Door stops
			Door at Open Mid-Stop	No change in state
			Door stopped during open or close cycle	No change in state
			Operator at OPEN limit	Door closes to the CLOSE limit
	Single Button		Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
	Remote	Button is	Door opening	Door stops
	Control	pressed	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
	Programmed		Door at Open Mid-Stop	Door opens to the OPEN limit
	as 300		Door stopped during the open cycle	Door closes to the CLOSE limit
			Door stopped during the close cycle	Door opens to the OPEN limit or Mid-Stop

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
			Operator at OPEN limit	Door closes to the CLOSE limit
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
			Door opening	Door stops
	Single Button Wall	Button is pressed	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
	Controller		Door at Open Mid-Stop	Door opens to the OPEN limit
	(Wired)		Door stopped during the open cycle	Door closes to the CLOSE limit
			Door stopped during the close cycle	Door opens to the OPEN limit or Mid-Stop
		Button is held (constant pressure)	Door Opening	No change in state (bypasses Mid-Stop)
	myQ° Smart	Open is pressed	Operator at OPEN limit	No change in state
B2 (continued)			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
			Door opening	No change in state
			Door closing	Door will auto reverse to OPEN limit or Mid-Stop
			Door at Open Mid-Stop	Door opens to the OPEN limit
	Facility		Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop
	Access		Operator at OPEN limit	Door closes to the CLOSE limit
			Operator at CLOSE limit	No change in state
		Close is pressed.	Door opening	No change in state
		ciose is pressed.	Door closing	No change in state
			Door at Open Mid-Stop	Door closes to the CLOSE limit
			Door stopped during open or close cycle	Door closes to the CLOSE limit

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
			Operator at OPEN limit	No change in state
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid- Stop
		OPEN button	Door opening	No change in state
		is pressed momentarily	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
			Door at Open Mid-Stop	Door opens to the OPEN limit
			Door stopped during open or close cycle	Door opens to the OPEN limit or Mid- Stop
C2			Operator at OPEN limit	Door closes and stops when button is released
Momentary			Operator at CLOSE limit	No change in state
contact to		CLOSE button	Door opening	No change in state
open and stop		is pressed	Door closing	No change in state
with constant pressure to		momentarily	Door at Open Mid-Stop	Door closes and stops when button is released
close (wired devices ONLY),	Front panel		Door stopped during open or close cycle	Door closes and stops when button is released
open override	buttons		Operator at OPEN limit	No change in state
plus wiring for	(membrane)	CTOD button	Operator at CLOSE limit	No change in state
to reverse	Wall	is proceed	Door opening	Door stops
Open Mid-Stop	Controller	momentarily	Door closing	Door stops
available with			Door at Open Mid-Stop	No change in state
this mode type.			Door stopped during open or close cycle	No change in state
Compatible			Operator at OPEN limit	No change in state
with 3-Button Station and			Operator at CLOSE limit	Door opens to OPEN limit (bypasses Mid-Stop)
Single-Button		OPEN button is held	Door opening	No change in state (bypasses Mid-Stop)
Station		(constant pressure)	Door closing	Door will auto reverse to OPEN limit (bypasses Mid-Stop)
			Door at Open Mid-Stop	Door opens to the OPEN limit
			Door stopped during open or close cycle	Door opens to the OPEN limit (bypasses Mid-Stop)
			Operator at OPEN limit	Door closes to the CLOSE limit
		CLOCE hutten in	Operator at CLOSE limit	No change in state
		held (constant	Door opening	No change in state
		pressure)	Door closing	No change in state
			Door at Open Mid-Stop	Door closes to the CLOSE limit
			Door stopped during open or close cycle	Door closes to the CLOSE limit

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
			Operator at OPEN limit	No change in state
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
		OPEN button	Door opening	No change in state
		is pressed	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
		momentarily	Door at Open Mid-Stop	Door opens to the OPEN limit
			Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop
			Operator at OPEN limit	No change in state
	3-Button		Operator at CLOSE limit	No change in state
	Remote Control	CLOSE button	Door opening	No change in state
	Programmed as	is pressed	Door closing	No change in state
	OPEN/CLOSE/	momentarily	Door at Open Mid-Stop	No change in state
	STOP		Door stopped during open or close cycle	No change in state
			Operator at OPEN limit	No change in state
			Operator at CLOSE limit	No change in state
		STOP button	Door opening	Door stops
		is pressed	Door closing	Door stops
		momentarily	Door at Open Mid-Stop	No change in state
			Door stopped during open or close cycle	No change in state
			Operator at OPEN limit	No change in state
	Circula Duttor		Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
	Single Button Remote Control Programmed as SBC	Dutter in	Door opening	Door stops
		pressed	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
C2 (continued)		pressed	Door at Open Mid-Stop	Door opens to the OPEN limit
			Door stopped during open cycle	No change in state
			Door stopped during close cycle	Door opens to the OPEN limit or Mid-Stop
			Operator at OPEN limit	Door closes and stops when button is released
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
		Buttonic	Door opening	Door stops
	Single Button Wall Controller (Wired)	pressed	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
		pressed	Door at Open Mid-Stop	Door opens to the OPEN limit
			Door stopped during open cycle	Door closes and stops when button is released
			Door stopped during close cycle	Door opens to the OPEN limit or Mid-Stop
		Button is held (constant pressure)	Door Opening	No change in state or Mid-Stop
			Operator at OPEN limit	No change in state
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
			Door opening	No change in state
		Open is pressed	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
			Door at Open Mid-Stop	Door opens to the OPEN limit
	myQ" Smart		Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop
	Facility Access		Operator at OPEN limit	No change in state
			Operator at CLOSE limit	No change in state
			Door opening	No change in state
		Close is pressed	Door closing	No change in state
			Door at Open Mid-Stop	No change in state
			Door stopped during open or close cycle	No change in state

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
			Operator at OPEN limit	No change in state
		OPEN button is	Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
			Door opening	No change in state
		pressed	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
		Informeritarity	Door at Open Mid-Stop	Door opens to the OPEN limit or Mid-Stop
			Operator at OPEN limit	Door closes and auto reverses when button is released
		CLOSE	Operator at CLOSE limit	No change in state
		button is	Door opening	No change in state
		pressed	Door closing	No change in state
		momentarily	Door at Open Mid-Stop	Door closes and auto reverses when button is released
			Door stopped during open or close cycle	Door closes and auto reverses when button is released
			Operator at OPEN limit	No change in state
		STOP	Operator at CLOSE limit	No change in state
	3-Button	button is	Door opening	Door stops
	Wall	pressed	Door closing	Door stops
	Controller	Informeritarily	Door at Open Mid-Stop	No change in state
			Operator at OPEN limit	No change in state
			Operator at CLOSE limit	Door opens to the OPEN limit (bypasses Mid-Stop)
		button	Door opening	No change in state (bypasses Mid-Stop)
		is held	Door closing	Door will auto reverse to OPEN limit (bypasses Mid-
		(constant		Stop)
50		pressure)	Door at Open Mid-Stop	Door opens to the OPEN limit
E2 - Momentary			Door stopped during open or close cycle	Door opens to the OPEN limit (bypasses Mid-Stop)
contact to			Operator at OPEN limit	Door closes to the CLOSE limit
open with		CLOSE	Operator at CLOSE limit	No change in state
override		button is held (constant pressure)	Door opening	No change in state
and			Door at Open Mid-Stop	No change in state
pressure to close.			Door stopped during open or close cycle	Door closes and auto reverses when button is released
Release			Operator at OPEN limit	No change in state
of close		OPEN	Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
button will		button is	Door opening	No change in state
to reverse		pressed momentarily	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
(roll-back			Door at Open Mid-Stop	Door opens to the OPEN limit
feature)	O Dutter		Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop
plus wiring	3-Button Remote		Operator at OPEN limit	No change in state
device to	Control	CLOSE	Deer opening	No change in state
reverse.	Programmed	pressed		No change in state
Compatible	as OPEN/	momentarily	Door at Open Mid-Stop	No change in state
with	STOP		Door stopped during open or close cycle	No change in state
3-Button	STOP		Operator at OPEN limit	No change in state
Station.		STOP	Operator at CLOSE limit	No change in state
		button is	Door opening	Door stops
		pressed	Door closing	Door stops
		momentarily	Door at Open Mid-Stop	No change in state
			Door stopped during open or close cycle	No change in state
			Operator at OPEN limit	No change in state
	Single		Operator at CLOSE limit	No change in state
	Button	Button is	Door opening	No change in state
	Control	presseu	Door at Open Mid-Stop	No change in state
	Control		Door stopped during open or close cycle	No change in state
			Operator at OPEN limit	No change in state
			Operator at CLOSE limit	No change in state
	Single		Door opening	No change in state
	Button Wall	Button is	Door closing	No change in state
	(Wired)	pressed:	Door at Open Mid-Stop	No change in state
			Door stopped during the open cycle	No change in state
			Door stopped during the close cycle	No change in state
			Operator at OPEN limit	No change in state
		Deer	Operator at CLOSE limit	Door opens to the OPEN limit
	myQ	Loor image		No change in state
			Door at Open Mid-Stop	No change in state
			Door stopped during open or close cycle	No change in state
		1		

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
			Operator at OPEN limit	No change in state
		OPEN button is	Operator at CLOSE limit	Door opens and stops when button is released
		momentarily	Door opening	No change in state
			Door at Open Mid-Stop	Door opens and stops when button is released
			Door stopped during open or close cycle	Door opens and stops when button is released
			Operator at OPEN limit	Door closes and stops when button is released
		0.0051	Operator at CLOSE limit	No change in state
		ICLOSE button	Door opening	Door stops
		momentarily	Door closing	No change in state
			Door at Open Mid-Stop	Door closes and stops when button is released
			Door stopped during open or close cycle	Door closes and stops when button is released
		STOP button is	Operator at CLOSE limit	No change in state
	3-Button	pressed	Door opening	Door stops
	Wall	momentarily	Door closing	Door stops
	Controller		Door at Open Mid-Stop	No change in state
			Door stopped during open or close cycle	Door stops only in the closed position
			Operator at OPEN limit	No change in state
		OPEN button is	Operator at CLOSE limit	Door opens to the OPEN limit
		held (constant	Door opening	No change in state
		pressure)	Door at Open Mid-Step	Door opens to the OPEN limit
			Door stopped during open or close cycle	Door stops only in the closed position
			Operator at OPEN limit	Door closes to the CLOSE limit
		CLOSE	Operator at CLOSE limit	No change in state
		button is held	Door opening	No change in state
01		pressure)	Door closing	No change in state
Constant			Door at Open Mid-Stop	Door closes to the CLOSE limit
pressure to			Door stopped during open or close cycle	Door stops only in the open position
open and			Operator at OPEN limit	No change in state
close with		OPEN button is		No change in state
sensina	3-Button	pressed	Door closing	No change in state
device to	Remote	momentarily	Door at Open Mid-Stop	No change in state
stop.	Programmed		Door stopped during open or close cycle	No change in state
Compatible	as OPEN /		Operator at OPEN limit	No change in state
3-Button	CLOSE /	CLOSE button	Operator at CLOSE limit	No change in state
Station	STOP	is pressed	Door opening	No change in state
	Natall	momentarily	Door closing	No change in state
ti v	transmitters		Door stopped during open or close cycle	No change in state
	will give		Operator at OPEN limit	No change in state
	constant		Operator at CLOSE limit	No change in state
	pressure to	STOP button is	Door opening	No change in state
	CIOSE	pressed	Door closing	No change in state
			Door at Open Mid-Stop	No change in state
			Door stopped during open or close cycle	No change in state
			Operator at OPEN limit	No change in state
	Single Button	Buttonic		No change in state
	Remote	pressed	Door closing	No change in state
	Control		Door at Open Mid-Stop	No change in state
			Door stopped during open or close cycle	No change in state
			Operator at OPEN limit	No change in state
	Single		Operator at CLOSE limit	No change in state
	Button Wall	Button is	Door opening	No change in state
	Controller	pressed:	Door closing	No change in state
	(Wired)		Door stopped during the open cycle	No change in state
			Door stopped during the close cycle	No change in state
			Operator at OPEN limit	No change in state
			Operator at CLOSE limit	No change in state
	mu	Door image is	Door opening	No change in state
	iiiyQ	pressed:	Door closing	No change in state
			Door at Open Mid-Stop	No change in state
			Door stopped during open or close cycle	No change in state

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
			Operator at OPEN limit	No change in state (Recycle timer)
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop (and activates TTC)
		OPEN	Door opening	No change in state
		button is	Door closing	Door will auto reverse to OPEN limit or Mid-Stop
		momentarily	Door at Open Mid-Stop	Door opens to the OPEN limit (and activates
				TTC) Door opens to the OPEN limit or Mid-Stop (and
			Door stopped during open or close cycle	activates TTC)
Τ-			Operator at OPEN limit	Door closes to the CLOSE limit
Momentary		CLOSE	Operator at CLOSE limit	No change in state
contact to		button is	Door opening	No change in state
open, close,		momentarily	Door closing	No change in state
and stop, with		linomentarily	Door at Open Mid-Stop	Door closes to the CLOSE limit
and Timer-To-	Front panel		Door stopped during open or close cycle	Door closes to the CLOSE limit
Close (TTC).	buttons			No change in state (Deactivate timer)
Every device	(membrane)	STOP button		Door stops
that causes the	and 3-Button	is pressed	Door closing	Door stops
door to open,	Wall	momentarily	Door at Open Mid-Stop	No change in state (Deactivate timer)
sensing edge	Controller		Door stopped during open or close cycle	No change in state
input device,			Operator at OPEN limit	No change in state (Recycle & hold timer)
activates the				Door opens to the OPEN limit (bypasses Mid-
TTC. Auxiliary		OPEN	Operator at CLOSE limit	Stop) and activates TTC
controls can be		button	Door opening	No change in state (bypasses Mid-Stop)
connected to		is held	Door closing	Door will auto reverse to OPEN limit (bypasses
activate the TTC		(constant		Mid-Stop) and activates TTC
If the TTC has		pressure)	Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
been activated,			Door stopped during open or close cycle	Door opens to the OPEN limit (bypasses Mid-
the open button				Stop) and activates TTC
and radio control		CLOSE	Operator at CLOSE limit	Door closes to the CLOSE limit
the timer. The		button		No change in state
stop button will		is held	Door closing	No change in state
deactivate the		(constant	Door at Open Mid-Stop	Door closes to the CLOSE limit
timer until the		pressure)	Door stopped during open or close cycle	Door closes to the CLOSE limit
next command			Operator at OPEN limit	No change in state (Recycle timer)
will function			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop and activates TTC
limit stop and		OPEN	Door opening	No change in state
Open Mid-Stop		button is	Description	Door will auto reverse to OPEN limit or Mid-Stop
available with		momentarily	Door closing	and activates TTC
this mode type.		linomentarily	Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
Compatible	3-Button		Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop and
with 3-Button	Remote			activates TTC
Station and 1	Control		Operator at OPEN limit	Door closes to the CLOSE limit
and 3-Button	Programmed	CLOSE		No change in state
Remote Control.	CLOSE/	pressed	Door closing	No change in state
Close Mid-Stop	STOP	momentarily	Door at Open Mid-Stop	Door closes to the CLOSE limit
is available but			Door stopped during open or close cycle	Door closes to the CLOSE limit
not snown in			Operator at OPEN limit	No change in state (Deactivate timer)
Monitorod			Operator at CLOSE limit	No change in state
Entrapment		STOP button	Door opening	Door stops
Protection		is pressed	Door closing	Door stops
(LMEP) Device		momentarily	Door at Open Mid-Stop	No change in state (Deactivate timer)
required.			Door stopped during open or close cycle	No change in state
			Operator at OPEN limit	Door closes to the CLOSE limit
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop and activates TTC
	Single Button		Door opening	Door stops
	Control	Button is pressed	Door closing	Door will auto reverse to OPEN limit or Mid-Stop and activates TTC
	as SBC		Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
			Door stopped during the open cycle	Door closes to the CLOSE limit
			Door stopped during the close cycle	Door opens to the OPEN limit or Mid-Stop and activates TTC

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
			Operator at OPEN limit	Door closes to the CLOSE limit
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop
			Door opening	Door stops
	Single	Button is	Door closing	Door will auto reverse to OPEN limit or Mid-Stop and activates TTC
	Button Wall	pressed	Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
	Controller		Door stopped during the open cycle	Door closes to the CLOSE limit
	(Wired)		Door stopped during the close cycle	Door opens to the OPEN limit or Mid-Stop and activates TTC
		Button is held (constant pressure)	Door opening	No change in state
	myQ® Smart Facility		Operator at OPEN limit	No change in state (Recycle timer)
T (continued)			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop and activates TTC
		Oponis	Door opening	No change in state
		pressed	Door closing	Door will auto reverse to OPEN limit or Mid-Stop and activates TTC
			Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
			Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop and activates TTC
	Access		Operator at OPEN limit	Door closes to the CLOSE limit
			Operator at CLOSE limit	No change in state
		Close is	Door opening	No change in state
		pressed	Door closing	No change in state
			Door at Open Mid-Stop	Door closes to the CLOSE limit
			Door stopped during open or close cycle	Door closes to the CLOSE limit

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
TS-	Ì	ĺ	Operator at OPEN limit	No change in state (Recycle TTC)
This mode will attempt to close the door from		OPEN	Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop and activates TTC
any position except			Door opening	No change in state
when fully closed, or when a safety input		button is pressed	Door closing	Door will auto reverse to OPEN limit or Mid- Stop and activates TTC
button will recycle the Timer-To-Close (TTC) at		momentarily	Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
any position. To disable the TTC in this mode,			Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop and activates TTC
installation of a defeat			Operator at OPEN limit	Door closes to the CLOSE limit
switch is required (see		CLOSE	Operator at CLOSE limit	No change in state
wiring diagram).		button is	Door opening	No change in state
Momentary contact to		pressed	Door closing	No change in state
open, close, and stop		momentarily	Door at Open Mid-Stop	Door closes to the CLOSE limit
with open override and			Door stopped during open or close cycle	Door closes to the CLOSE limit
TTC. Every device that			Operator at OPEN limit	No change in state (Recycle TTC)
causes door to open,	Front panel	STOP	Operator at CLOSE limit	No change in state
including a reversing	buttons	button is	Door opening	Door stops and activates TTC
device, activates the	(membrane)	pressed	Door closing	Door stops and activates TTC
Con be connected to	and 2 Button	momentarily	Door at Open Mid-Stop	No change in state (Recycle TTC)
open input to activate	3-Bullon		Door stopped during open or close cycle	No change in state (Recycle TTC)
the TTC. If the timer	Controller		Operator at OPEN limit	No change in state (Recycle & hold TTC)
has been activated, the open button and radio		OPEN button	Operator at CLOSE limit	Door opens to the OPEN limit (bypasses Mid-Stop) and activates TTC
control can recycle the timer. The TTC will			Door opening	No change in state (bypasses Mid-Stop) and activates TTC
function from the Open limit and Open mid		is held (constant	Door closing	Door will auto reverse to OPEN limit (bypasses Mid-Stop) and activates TTC
stop with this operating mode type. Close Mid		pressure)	Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
Stop available but not shown in table.			Door stopped during open or close cycle	Door opens to the OPEN limit (bypasses Mid-Stop) and activates TTC
Compatible with			Operator at OPEN limit	Door closes to the CLOSE limit
3-Button Station, 1-Button Station and 1		CLOSE	Operator at CLOSE limit	No change in state
		button	Door opening	No change in state
and 3-Button Remote		is held	Door closing	No change in state
		(constant	Door at Open Mid-Stop	Door closes to the CLOSE limit
Protection (LMEP) Device required.	ment)	pressure)	Door stopped during open or close cycle	Door closes to the CLOSE limit

WIRING TYPE	DEVICE	ACTION	STATE	RESPONSE
	1		Operator at OPEN limit	No change in state (Recycle TTC)
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop and activates TTC
			Door opening	No change in state
		is pressed	Door closing	Door will auto reverse to OPEN limit or Mid- Stop and activates TTC
		momentarity	Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
			Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop and activates TTC
	3-Button		Operator at OPEN limit	Door closes to the CLOSE limit
	Remote Control		Operator at CLOSE limit	No change in state
	as OPEN/	CLOSE button	Door opening	No change in state
	CLOSE/STOP	momentarily	Door closing	No change in state
		lineineineiny	Door stopped during open or	
			close cycle	Door closes to the CLOSE limit
			Operator at OPEN limit	No change in state (Recycle TTC)
			Operator at CLOSE limit	No change in state
		STOP button	Door opening	Door stops and activates TTC
		is pressed	Door closing	Door stops and activates TTC
		momentarity	Door at Open Mid-Stop	No change in state (Recycle TTC)
			close cycle	No change in state (Recycle TTC)
			Operator at OPEN limit	Door closes to the CLOSE limit
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop and activates TTC
			Door opening	Door stops and activates TTC
	Single Button Remote Control Programmed as SBC	Button is pressed	Door closing	Door will auto reverse to OPEN limit or Mid- Stop and activates TTC
			Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
TS (continued)			Door stopped during the open cycle	Door closes to the CLOSE limit
			Door stopped during the close cycle	Door opens to the OPEN limit or Mid-Stop and activates TTC
			Operator at OPEN limit	Door closes to the CLOSE limit
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop and activates TTC
			Door opening	Door stops and activates TTC
			Door closing	Door will auto reverse to OPEN limit or Mid-
	Single Button	Button is pressed	Door at Open Mid. Step	Stop and activates TTC
	Wall Controller		Door stopped during the open	
	(Wired)		cycle	Door closes to the CLOSE limit
			Door stopped during the close cycle	Door opens to the OPEN limit or Mid-Stop and activates TTC
		Button is held (constant pressure)	Door opening	No change in state or Mid-Stop and activates TTC
		-	Operator at OPEN limit	No change in state (Recycle TTC)
			Operator at CLOSE limit	Door opens to the OPEN limit or Mid-Stop (activates TTC)
			Door opening	No change in state
		Open is pressed	Door closing	Door will auto reverse to OPEN limit or Mid-
			Door at Open Mid-Stop	Door opens to the OPEN limit and activates TTC
	myQ [®] Smart Facility Access		Door stopped during open or close cycle	Door opens to the OPEN limit or Mid-Stop and activates TTC
			Operator at OPEN limit	Door closes to the CLOSE limit
			Operator at CLOSE limit	No change in state
			Door opening	No change in state
		Close is pressed	Door closing	No change in state
			Door stopped during open or	
			close cycle	Door closes to the CLOSE limit

Programmable Inputs

- The controller contains three programmable inputs that may be configured to accept several different input devices.
- Navigate through the menus to SYSTEM SETTINGS (enter password) to PROG INPUTS. Select INP1, INP2 or INP3.
- Select a Function from the list. Press Enter.
- Select a Polarity from the list. Press Enter.

Function Options:

- Non-monitored Eye/Edge Input
- Car Dealer Input (typically loop detector, treadle hose, card reader)
- Timer Defeat
- All Fly (previously known as FSTS)

Radio

The controller has a built in Security+ 2.0[®] radio receiver, that can program up to 90 remote control devices and up to 30 keyless entry devices.

Programming Remote Controls and myQ[®] Devices

- 1. Select SYSTEM SETTINGS from the main menu (enter passcode.)
- 2. Select CONNECTIVITY.
- Select one of: Learn myQ Devices, Wi-Fi, or Remotes.
- 4. The operator will indicate the selected accessory is being learned.
- 5. Repeat as needed for any other devices and remotes.

Erasing Programmed Devices

- 1. Select Connectivity from the main menu (enter passcode).
- 2. Select Erase.
- Select the type of device to be erased or select "Erase all".
- 4. Press "UP" button to erase the selected device.
- 5. Display will confirm erasing selected device.

Reset Defaults

Parameter	Default Value
Operating Mode	B2
Frequency Profile	Maximum Speed
Open Frequency	10HZ
Close Frequency	10HZ
Limits	Must Relearn Limits
Timer to Close	120 sec.
Delay to Open	0
Delay to Close	0
INP1 Function	No Function
INP1 Logic	N.O.
INP2 Function	No Function
INP2 Logic	N.O.
INP3 Function	No Function
INP3 Logic	N.O.
Eye/Edge	Unlearned
Service Counter Interval	5000
Service Counter Value	ls not reset
Absolute Cycle Counter	ls not reset

NOTICE: This device complies with part 15 of the FCC rules and Innovation, Science and Economic Development Canada licenseexempt RSSs. 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.

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 must be installed to ensure a minimum 20 cm (8 in.) distance is maintained between users/bystanders and device.

This device has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules and Industry Canada ICES standard. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

myQ[®] Smart Facility Access

One Platform allows you to manage access for unlimited facilities, users and vehicles.

The myQ[®] Smart Facility Access allows you to control all your access points in the facility from the myQ[®] website application from anywhere. Monitor and control your vehicular access doors, gated entry locations, and even dock positions from a universal platform. myQ[®] technology uses a 900Mhz signal or a Wi-Fi connection to communicate securely from your connected devices to myQ[®] enabled accessories or directly to a Wi-Fi network.

Setup a myQ[®] Smart Facility Access Account

NOTE: If you have an existing myQ[®] account, your myQ[®] Business™ account will have the same password.

We have made the account setup process easier than ever. It's completely self-service. Go to Account.myQ.com and begin the process.

- 1. Select Country, Name, email, and create password.
- 2. Verify the email with a 4-digit code.
- 3. Select property manager or partner.
- To create a myQ[®] Facility, select property type, property name, property manager information. You are now ready to access your dashboard and all other myQ[®] features.
- Set up the Facility and add users and groups to provide access to the Facility (refer to the available Help in myQ[®] Business[™]).
- 6. You will get a welcome email from LiftMaster. Accept the invitation and register or login to your account.
- Set up the Facility and add users & groups to provide access to the Facility (refer to the available Help in myQ[®] Business[™]).
- 8. Follow on-screen prompts to get your Variable Speed Door Operator and additional devices connected.

Provisioning Wi-Fi

Follow the below instructions to pair the operator:

- 1. Press the "STOP/ENTER" and "DOWN" buttons at the same time for 3+ seconds to enter the operator menu.
- Scroll down to "SYSTEM SETTINGS" with the "UP" and "DOWN" buttons and press "ENTER". You will be prompted to enter the password for the operator.
- 3. Enter 326 as the password.
- 4. Scroll down to "CONNECTIVITY" and press "ENTER".
- 5. Press "ENTER" again to select "CONNECTIVITY LEARN".
- 6. Scroll down to "LEARN WIFI" and press "ENTER". The operator will now be in Learn Mode.
- Using your own device (laptop, tablet, or smart phone) go to your device's Wi-Fi setting and search for the Wi-Fi network called myQ-nnn where the nnn is the last 3 serial numbers of your controller. Select that Wi-Fi network.
- 8. Once your device (laptop, tablet, or smart phone) is connected to the operator, go to setup.myqdevice.com on your device and follow the instructions.

Auxiliary Relays Accessory Kit ([XXXXX])

Configure the Relay Adapter

This operator allows for the programming of a single mid-stop door position.

To set the open mid-stop position:

- 1. In Programming Mode, go to Door Position => Open Mid-Stop or Close Mid-Stop.
- 2. Use the Up/Down buttons to move the door to the desired position.
- 3. Select Save = Enter

To erase the mid-stop, select Erase Open Mid-Stop or Erase Close-Mid Stop option, then select Save=Enter.

NOTE: Restoring defaults or resetting limits will erase the mid-stop position.

AUXILIARY RELAYS

- Aux Relay Switches: Set the AUX RELAY switches as needed to obtain the desired function as shown below.
- J6 Input: Communicator bus connects control board, expansion board, or relay adapter board.
- J7 Input: Communicator bus connects control board, expansion board, or relay adapter board.
- AUX24: Supplies +24Vdc up to 1AMP to wired accessories.

RED/GREEN LIGHT FUNCTIONALITY

Red light wired to AUX RELAY 1. Green light wired to AUX RELAY 2.

DOOR STATE	AUX RELAY 1 SWITCHES		AUX RELAY 2 SWITCHES			
	1 OFF	2 OFF	3 OFF	1 ON	2 ON	3 ON
Closed	Red light OFF*			Green light OFF		
Opening	Red light ON/Flash		Green light OFF			
Open	Red light OFF			Green light ON		
Closing	Red light ON/Flash		Green light OFF			
Defined Mid Stop	N/A		N/A			
Undefined Mid Stop	Red light ON		Green light OFF			
Timer more than 5 seconds	Red light OFF		Green light ON			
Timer less than 5 seconds	Red light ON/Flash		Green light OFF			



RELAY ADAPTER BOARD





* For red light ON when gate is closed, set switch 1 on AUX RELAY 1 to ON.



Loop Detector Board



Plug-in Loop Detector Model LOOPDETLM

Need better installation images this is just a reference.

Loop Mode	SW1	SW2
EXIT	?	?
INTERRUPT	?	?
SHADOW	?	?
AUXILIARY	ON	ON

Disconnect power BEFORE making electrical connections. The Loop Detector Board (model LPEXP, not provided) combined with the LOOPDETLM, provides (What functionality) functionality that is available through the auxiliary switch setting.

The LPEXP and LOOPDETLM can be purchased together as a kit (LPEXPKIT).

- 1. Secure the Loop Detector Board (model LPEXP) to the standoffs in the DC Logic NTX cover on the motor side with the provided screws.
- 2. Connect the wire harness from the Loop Detector Board to the AUX Relay Board or Main Board (Need to show images).
- 3. Connect the loop wires to the input on the Loop Detector Board.
- 4. Plug in the loop detector (model LOOPDETLM).
- 5. Set switches on the Loop Detector Board to desired settings (Don't know the settings).
- 6. Activate the loop detector to validate desired functionality.

Troubleshooting

If an error occurs, the idle screen is replaced by a screen showing the error code and a description of the error. An example error code display is shown below.

Error messages originate in one of three categories:

- Inverter (power faults)
- Door control codes related to the motor and encoder
- Option codes related to accessories used with the MC11 or MC21 controllers.

Consult the Table of Error Codes below to determine the cause and corrective action. Depending on the type of error, user interaction may be required to clear the error. The error window closes when the error has been cleared/corrected.

Code	UI Display Text	Fault	Possible Causes
F01	F01 CLOSE LIMIT	Door has moved beyond the lower end position	 End positions not correctly set Direction of rotation incorrect Brake failure/door falls
F02	F02 OPEN LIMIT	Door has moved beyond upper end position	 End positions not correctly set Direction of rotation incorrect Brake failure
F03	F03 DIRECTION	Door has moved in the wrong direction.	 Direction of rotation incorrect Sagging when starting a door with high weight.
F04	F04 UNAUTH. STOP	Obstruction or operator fault triggered system to stop	 Door moved onto obstacle. If needed check force parameters. Encoder malfunction (e.g. encoder no longer connected) Inverter has triggered stop by itself (e.g. due to temperature, internal error) Inverter has triggered stop due to over voltage, missing brake chopper on imbalanced door. Door cable stretch. Reset limits.
F05	F05 UNAUTH. MOVE	Door did not stop on time while moving or made an unauthorized move while standing.	 Brake sash chain disengaged. Brake worn-out. Stop command not transmitted Encoder shows ghost movement
F08	F08 NO CONFIG	Configuration not found. Was reset to factory setting.	 No stored configuration could be found in memory. (Normal for instance with new controller, and/or after certain tests with the test system.) The stored configuration is outdated and no longer compatible with the current software. Can occur after update to a new version.
F09	F09 BUTTON CABLE	Ribbon cable connecting front panel buttons to display is not detected.	Check to ensure that the ribbon cable from the front panel to the display board is attached properly.
F10	F10 UP FORCE	UPWARD force curve is missing	Force sensing in UPWARD direction is activated, but force curve in UPWARD direction is not stored. Execute force learn.
F11	F11 DOWN FORCE	DOWNWARD force curve is missing	Force sensing in DOWNWARD direction is activated. But force curve in DOWNWARD direction is not stored. Execute force learn.
F14	F14 SET LIMITS	End positions are not set or stored.	 Door positions not set due to new product. Door positions lost due to total reset.
F26	F26 OVER VOLT	Overvoltage on the inverter board	The controller received a message from the inverter of overvoltage.
F41	F41 EYE/ EDG1 BLK	Monitored Eyes/Edge Input 1 Blocked for 3 minutes or more.	The Monitored Eyes/Edge input 1 has a device connected and sensing blocked for 3 minutes or longer.

Troubleshooting (continued)

Code	UI Display Text	Fault	Possible Causes	
F42	F42 EYE/ EDG1 MIS	Monitored Eyes/Edge Input 1 learned, but no longer present	The Monitored Eyes/Edge input 1 was learned to the controller, but no longer found.	
F43	F43 EYE/ EDG1 BLK	Command to move door received, but Monitored Eyes/Edge Input 1 blocked.	 A command to move the door was received, but the Monitored Eyes/Edge input 1 is sensing blocked. Door reversed during travel due to Monitored Eyes/Edge Input 1 blocked. 	
F44	F44 EYE/ EDG2 BLK	Monitored Eyes/Edge Input 2 Blocked for 3 minutes or more.	The Monitored Eyes/Edge input 2 has a device connected and sensing blocked for 3 minutes or longer.	
F45	F45 EYE/ EDG2 MIS	Monitored Eyes/Edge Input 2 learned, but no longer present	The Monitored Eyes/Edge input 2 was learned to the controller, but no longer found.	
F46	F46 EYE/ EDG2 BLK	Command to move door received, but Monitored Eyes/Edge Input 2 blocked.	 A command to move the door was received, but the Monitored Eyes/Edge input 2 is sensing blocked. Door reversed during travel due to Monitored Eyes/Edge input 2 blocked. 	
F47	F47 EYE/ EDG3 BLK	Monitored Eyes/Edge Input 3 Blocked for 3 minutes or more.	The Monitored input 3 has a device connected and sensing blocked for 3 minutes or longer.	
F48	F48 EYE/ EDG3 MIS	Monitored Eyes/Edge Input 3 learned, but no longer present	The Monitored Eyes/Edge input 3 was learned to the controller, but no longer found.	
F49	F49 EYE/ EDG3 BLK	Command to move door received, but Monitored Eyes/Edge Input 3 blocked.	 A command to move the door was received, but the Monitored Eyes/Edge input 3 is sensing blocked. Door reversed during travel due to Monitored Eyes/Edge Input 3 blocked. 	
F51	F51 INP1 BLOCK	Device triggered for 3 minutes or more on Input 1.	A device connected to Programmable Input 1 is triggered or blocked for 3 minutes or longer.	
F52	F52 INP1 CMND	Command to move door received, but device triggered on Programmable Input 1.	 Command to move door received, but Non Monitored device triggered on Input 1. Door reversed during travel due to Programmable Input 1 blocked. 	
F53	F53 INP2 BLOCK	Device triggered for 3 minutes or more on Input 2.	A device connected to Programmable Input 2 is triggered or blocked for 3 minutes or longer.	
F54	F54 INP2 CMND	Command to move door received, but device triggered on Programmable Input 2.	 Command to move door received, but Non Monitored device triggered on Input 2. Door reversed during travel due to Programmable Input 2 blocked. 	
F55	F55 INP3 BLOCK	Device triggered for 3 minutes or more on Input 3.	A device connected to Programmable Input 3 is triggered or blocked for 3 minutes or longer.	
F56	F56 INP3 CMND	Command to move door received, but device triggered on Programmable Input 3.	 Command to move door received, but Non Monitored device triggered on Input 3. Door reversed during travel due to Programmable Input 3 blocked. 	
F61	F61 CTM FAULT	Cable Tension monitor/s triggered	 One or both of the cable tension monitors is not connected. One or both of the cable tension monitors has faulty wiring (shorted). One or both of the cable tension monitors is triggered by a slack door cable. 	

Troubleshooting (continued)

Code	UI Display Text	Fault	Possible Causes
F91	F91 ENCODER	Error in position encoder message. Door position outside of valid range.	 Error in communication cable. Cable shorted, cut, connector disconnected. Loose encoder wires connected to controller.
F92	F92 ENCODER	Time-out error when receiving position encoder message. Message incomplete.	 Error in communication cable. Cable shorted, cut, connector disconnected. Loose encoder wires connected to controller.
F93	F93 ENCODER	Time-out error when receiving position encoder message. No signals received.	 Error in communication cable. Cable defect / not connected. Loose encoder wires connected to controller.
F96	F96 SAFETY CIRC	Safety chain circuit was interrupted.	 Check the status of all devices connected to the INTR LOCK terminals. If no devices are connected a jumper must be placed. Check that the chain hoist mechanism is fully engaged. Check the Data Cable connections at Control Board and Inverter Board. Ensure S+ is connected to S+ and S- is connected to S Check the hoist switch connection to the Inverter Board.

WIRELESS EDGE FAULTS

Error Code	Text	Description
n/a	WLESS EDGE BLOK	Edge is triggered
62	F62 WLESS BLK	Edge has been triggered for 3+ minutes
63	F63 WE BLE MISS	Wireless edge lost BLE communication with open edge
64	F64 WE BLE MISS	Wireless edge lost BLE communication with close edge
65	F65 WE I2C MISS	Wireless edge can't communicate with the board with an open edge
66	F66 WE I2C MISS	Wireless edge can't communicate with the board with a close edge
68	F68 WE CRIT BATT	Wireless edge battery is critical

Maintenance

Maintenance Schedule

For use with Maintenance Alert System. Check at the intervals listed in the following chart.



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.

Item	Procedure	Every Month	Every 3 Months or 5,000 Cycles	Every 6 Months or 10,000 Cycles
Drive Chain	Check for excessive slack.Check and adjust as required.Lubricate.		••	
Sprockets	Check set screw tightness.		•	
Fasteners	Check and tighten as required.			•
Manual Hoist (if applicable)	Check and operate.			•
Shafts	Check for wear and lubricate.		••	
LiftMaster Monitored Entrapment Protection	Check alignment and functionality.	•		

Use SAE 30 Oil (Never use grease or silicone spray)
 Do not lubricate motor. Motor bearings are rated for

 Do not lubricate motor. Motor bearings are rated fo continuous operation. Inspect and service whenever a malfunction is observed or suspected.

How to order repair parts: LiftMaster.com

Accessories

ENTRAPMENT PROTECTION DEVICES (MONITORED)

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).

K41-0157-000 - HPH1 & HPH2 Cable Tension Monitor (Right)

K41-0156-000 - HPH1 & HPH2 Cable Tension Monitor (Left)

LMTBUL - Monitored Thru-Beam Photoelectric Sensors Max Range: 90 ft. (27.4 m)

- Operating Temperature: -40°C to 65°C (-40°F to 149°F)
- Outdoor Rating: Nema 4X

Cable Length: 10 ft. (3 m)

- Heater: Thermostatically controlled
- Input Voltage: Sensor: Black/red wires 6.8 VDC, 20mA
- Heater: Green/white wires 10-40VDC or 8-28 VAC, 4 watts max., 170mA per pair @ 24 VDC/VAC, 340mA per pair @ 12 VDC/VAC

LMRRUL - Monitored Retro-Reflective Photoelectric

Max Range: 50 ft. (15.2 m) . Cable Length: 10 ft. (3 m)



Sensors

- Operating Temperature: -40°C to 65°C
- (-40°F to149°F)
- Outdoor Rating: Nema 4X
- Heater: Thermostatically controlled Input Voltage:
- Sensor: Black/red wires 6.8 VDC, 20mA
- Heater: Green/white wires 10-40VDC or 8-28 VAC, 4 watts max., 170mA per pair @ 24 VDC/VAC, 340mA per pair @ 12 VDC/VAC

CPS-UN4 - Monitored Thru-Beam Photoelectric

- 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). Polarized reflector for use in applications

CPS-RPEN4 - Monitored Retro-Reflective Photoelectric

with highly reflective surfaces.

direct water spray and corrosion.

NEMA 4X enclosure protects against

Sensors

Sensors



- Retro-reflective sensor. For indoor/outdoor use.
- Maximum range of 50 feet (15 m).

CPS-OPEN4 - Monitored Dual-Sided Photoelectric



- 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).

LMWEKITU - Wireless Edge Kit



[XXX]

Approved for US/CAN/MX, Puerto Rico, Columbia, Costa Rica.

LMWETXU - Wireless Edge Kit



- [XXX]
- Approved for US/CAN/MX, Puerto Rico, Columbia, Costa Rica.

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).



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).

Optical Edge System (OES)

- 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.

S50, L50 - Monitored Edge Sensors

[XXX]

CPS-EI - Edge Interface 4-Wire Monitored

For use with approved 4-wire sensing edges listed on this Accessory page.

ASO Monitored 4-Wire, 2-Wire Sentir Series 45.30

[XXX]

ASO Monitored 4-Wire, 2-Wire Sentir Series 35.55

[XXX]

LC36M - Monitored Light Curtain



Monitored, primary entrapment protection device that forms a 3-foot cross pattern of invisible light beams for maximum personnel and property protection.

- OES-RD16 Optical Edge System

Accessories (continued)

ENTRAPMENT PROTECTION DEVICES (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.

100MAPS - Plug-In Power Supply



Provides power to the LC-36A Light Curtain.

NOTE: Use if main board accessory power is consumed and additional power is required.

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.

REMOTE CONTROLS WITH SECURITY+ AND CONNECTIVITY

811LMX - Programmable DIP Switch Single-Button Remote Control



Ideal for commercial door applications requiring a large number of remotes for a common space.

Approved for US/CAN/MX, Puerto Rico, Columbia, Costa Rica,

891LMMC - Programmable DIP Switch Three-Button Remote Control



Includes Red, Yellow and Green markings which Indicates Open, Close, Stop.

Approved for US/CAN/MX, Puerto Rico, Columbia, Costa Rica.

893LMMC - Programmable DIP Switch Three-Button **Remote Control**



Approved for US/CAN/MX, Puerto Rico, Columbia, Costa Rica.

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.

WALL CONTROLLER

DCWALLCTL



Floor Level Wall Controller with LCD display.

NOTE: The door operator will only support a single DCWALLCTL display

02-101 - 1-Button Wall Controller



Steel enclosure.

02-102 - 2-Button Wall Controller



Steel enclosure.

02-103L - 3-Button Wall Controller



Steel enclosure with Maintenance Alert Svstem.

02-110 - Kev Wall Controller



Indoor flush mount, NEMA 1 with Stop button.

02-401M - 1-Button Wall Controller



Indoor/outdoor surface mount, single button to activate opening one commercial door.