

IMPORTANT SAFETY INFORMATION



WARNING

To reduce the risk of **SERIOUS INJURY** or **DEATH** the following should be read by **ANYONE** involved in the design, specification, selection or purchase of an industrial door operator or automated door system.

Automated Door Systems

For the purposes of this Safety Information, an automated door system consists of a vehicular door, an electric door operator, control equipment to interface with the door operator and safety equipment to protect people and property.

Vehicular Doors

A vehicular door is a large, heavy object that moves with the help of a counterbalance and electric motor. A moving door can cause **SERIOUS INJURY OR DEATH!** The safety and well-being of others depends on properly selecting products appropriate for the application and installing the products per the manufacturer's recommendations. In addition, it's imperative that all door components, including the operator, be installed and serviced by a trained door systems technician.

The door itself must be properly balanced and aligned and work freely and smoothly by hand. The door operator is not intended to operate a poorly installed, improperly balanced or worn-out door. The use of a door operator to attempt to compensate for any door defect can result in a dangerous situation.

Door Operator Selection

The proper door operator must be selected for the application. Pay attention to all application information in this catalog, including door type, size, voltage and control wiring. **IMPROPER SELECTION CAN RESULT IN A DANGEROUS SYSTEM.** Be sure you understand the application and limitations of the model door operator you select for your door. If you are in doubt, contact your sales representative.

Control Accessories

Door operators can present serious hazards to persons in the immediate area when not controlled in a safe manner or by responsible persons. Choose one or more controls that together will allow complete control of the door. Most importantly, **THE DOOR MUST BE ABLE TO BE STOPPED** at all times in case of emergency and the control for stopping should be conveniently located and clearly marked and visible.

All controls should be located **OUT OF REACH OF SMALL CHILDREN. SERIOUS INJURY OR DEATH CAN RESULT FROM CHILDREN PLAYING WITH CONTROLS.**

ALL CONTROLS SHOULD BE LOCATED SO THAT THE PERSON OPERATING THEM CAN SEE THE FULL AREA OF DOOR MOVEMENT, but should not be so close that a person starting the door could be injured due to his/her proximity to the door.

Be especially careful in designing systems with automatic controls, that is, controls that can cause the door to operate without warning to persons in the immediate door area. Such controls include, but are not limited to, radio controls, remote mounted access controls, telephone access systems and timing devices. **SAFETY EQUIPMENT AND SIGNS WARNING OF THE AUTOMATIC OPERATION ARE A MUST IN THE DESIGN OF SUCH A SYSTEM.**

Safety Devices

Any commercial/industrial door operator manufacturer wishing to List and Label product to UL325 on or after August 29, 2010, must be fully compliant with the requirements mandated by the new UL325-2010 regulations.

The UL325-2010 standard requires continuous monitoring of primary safety devices if the operator is used with any operating mode or feature other than constant pressure on the close button to lower the door. These types of primary safety devices can be either monitored photo sensors or a 2- or 4-wire monitored sensing edge.

Other Entrapment Protection Devices will be treated as ancillary. Installation of these types of safety devices is optional. Examples of these devices are 2-wire non-monitored and pneumatic sensing edges. These devices cannot be substituted for primary entrapment protection devices; instead these devices may be used to supplement the primary devices or constant-pressure-to-close. Such devices can be attached to UL325-2010 compliant Logic 4 and Medium-Duty Logic operators but can not be used to replace the primary safety devices.

There are many types of primary and ancillary entrapment devices available, but LiftMaster® operators are designed to communicate with LiftMaster® brand primary entrapment protection devices only. Two types of LiftMaster® photo sensors, the standard commercial/industrial CPS-U and NEMA 4 CPS-UN4, may be installed on a LiftMaster® operator in order to achieve any operating mode or feature beyond constant pressure on the close button to lower the door. In addition, LiftMaster® also offers a CPS-EI Edge Interface, which permits the attachment of a 4-wire monitored edge to satisfy the requirement for primary entrapment protection. For easy reference, all UL325-2010 compliant LiftMaster® operator installation manuals provide a reference chart stating which safety devices have been approved for each operator. The UL325 listing is dependent on testing each operator with each of the approved entrapment protection devices. Only those safety devices approved by UL for use with the operator as primary entrapment protection devices are referenced in the instruction manual.

While LiftMaster® operators provide basic constant pressure on the close button to lower the door without a primary entrapment device, **IT IS STRONGLY RECOMMENDED THAT SAFETY EQUIPMENT BE USED WITH EVERY DOOR OPERATOR.** There are many types of safety devices available; photo sensors, sensing edges, motion detectors and vehicle detectors are some of the more common types of primary and ancillary entrapment protection devices shown in the Accessories section of the Commercial Door Operators and Accessories Price List. Audible and/or visible warning devices are recommended when automatic controls are used in the door operating system. A variety of warning signs and labels are also offered in this section. **WITHOUT SAFETY EQUIPMENT THE DOOR COULD CAUSE SERIOUS INJURY OR DEATH!**



SAFE INSTALLATION PROCEDURES

Door operators and associated control equipment should only be installed and serviced by qualified professionals. Professional installers should observe the following safe installation procedures. To ensure that this is the case, provide a copy of this Safety Information section to the installer.

- 1) Read and follow all warnings and instructions within the installation manual.
- 2) Install the door operator only on a properly balanced and lubricated door. An improperly balanced door may not reverse when required and could result in SEVERE INJURY or DEATH.
- 3) All repairs to cables, spring assemblies and other hardware MUST be made by a trained door technician BEFORE installing the operator.
- 4) Disable ALL locks and remove ALL ropes connected to the door before installing the operator to avoid entanglement.
- 5) Install door operator 8 feet or more above floor. Operators installed below this height must be enclosed with an operator cover.
- 6) NEVER connect the door operator to a power source until instructed within the manual to do so.
- 7) Installation and wiring must be in compliance with all applicable local building and electrical codes.
- 8) NEVER wear watches, rings or loose clothing, which could become caught within the door or operator mechanisms, while installing or servicing the door operator.
- 9) Install control station:
 - Within sight of the door
 - Out of reach of children at a minimum height of 5 ft.
 - Away from ALL moving parts of the door
- 10) Install the control station far enough from the door to prevent the user from coming in contact with the door while operating the controls.
- 11) Install the entrapment warning placard on the wall next to the control station in a prominent location that is visible from the door.
- 12) Place manual release/safety reverse test label in plain view on inside of door.
- 13) Upon completion of installation, test entrapment protection device.
- 14) The operation of the door, controls and safety equipment should be reviewed with the owner and/or end user of the automated door system. Owner should also be informed of the need to maintain control and safety equipment on a regular basis. Safety equipment should be checked at least once monthly to ensure that it is working properly. All installation manuals, instructions and safety information should be left with the owner.