



Model 825-3-SS DC Commercial Rolling Sheet Door Operator
Commercial Operators that use *SafetySense™*

What is *SafetySense™*?

SafetySense™ is a product design concept used to reduce a technicians exposure to the hazards that exist during the installation and maintenance process.

SafetySense™ is also the technology used to provide the advanced safety functions included in all ZAP Series 3 Commercial Operators.

Why *SafetySense™*

Promotes safe work practices through product design to reduce the exposure to potential injury during the installation and maintenance process by reducing the time, materials, and equipment required to install and maintain a commercial rolling sheet door operator by up to 75%.

Provides the industry's most advanced obstruction detection system which turns every edge of the door into an actively monitored contact safety edge that detects obstructions on any part of the door, in any direction of travel.

Provides an active monitoring system at start up that detects and prevents the operation of the door when an unsafe service condition exists anywhere on the door system.

Prevents the door sheet from being rolled off of the barrel when closed onto dock equipment, debris, snow, and ice left in the door opening, preventing unnecessary damage to the door.

Reduces the mechanical components that are used in traditional commercial operators, reducing the cost of their associated maintenance.

Provides the ability to install the operator on new doors in minutes before the door is installed at ground level. Retro-fit installations are simple as well eliminating the requirement for front of the hood mounts, reducing installation costs.

Provides simple plug-in modules and ease of wiring to achieve various interlock scenarios to eliminate external limit relays and their required wiring.

Lowers electrical construction costs by reducing the number of circuits required to power a commercial operator by lowering

ZAP Series 3 Commercial Operators are by design

Simply Logical

ZAP Controls

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Not For Use In Residential Applications

ZAP Controls
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Standard features of the ZAP 825-3 Commercial Operator *SafetySense™* Door safety monitoring system

The industry's most advanced rolling sheet door monitoring system. It turns every edge of the door into a contact safety edge and also monitors the entire door system for unsafe operational and service conditions.

NEMA4 Motor drive system

Continuous duty, gear reduced DC Motor, for use in both normal and wet locations.

NEMA 4X rated controller case with push button controls

Provides a powerful soft start/soft stop output of 650 Newtons of force to drive our commercial operator motor system. Designed for safety and convenience, it provides ground level serviceability to the operator control system and provides 3-button open/close/stop control to motor. It is designed to accept either a 115VAC or 208-230VAC single phase power supply wired directly to the controller. A 24' low voltage motor cable is supplied for easy wiring of the motor. If used in a wet location, watertight connections are required on wiring introduced into the controller.

Auto-Close Timer

Fully programmable auto-close timer. Requires photo cell.

Prevent door operation interlock

Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.

Manual Operation Release Lever

An easy to use manual override release lever is provided. When released it allows easy hand operation of the door. It also provides ground level access to maintaining the operators drive belt adjustment.

Radio Control Connections

Wiring terminals are provided inside the controller for adding external radio control receivers from any desired manufacturer.

ZAP Controls

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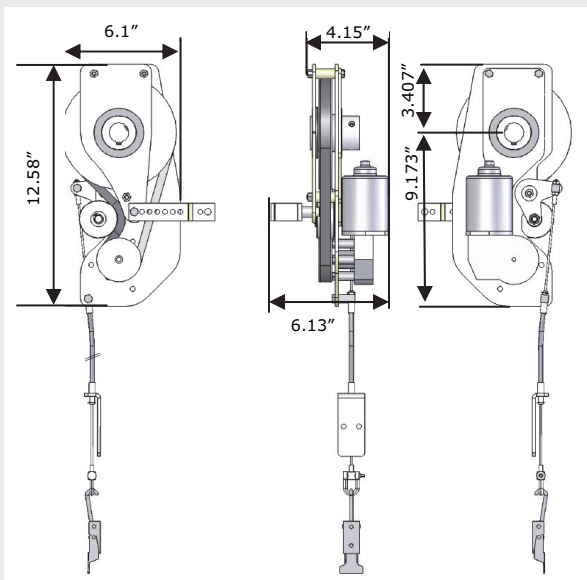
Commercial Operators that use **SafetySense™**

Door Size W X H	
3'-12"W X 3'-5'11"H	815-3-SS with Short run chip
3'-12"W X 6'-8"H	815-3-SS
Please read the instructions fully or attend training online before installation. Consult factory for door sizes beyond scope provided above. Mounts to 1" live axle sheet door. The minimum door height is 6'. Short run chip is available for lower heights.	

Technical information for the 825-3-SS

Controller case rating:	NEMA 4X/IP66
Controller dimensions:	8.7"H X 6.5"W X 4.7"D
Single phase voltage:	115V US, 208-230V US, 208-230V EU
Amp draw:	2.8A
Control circuit voltage:	6VDC
Power rating	650 Newtons Equiv. 1/2 HP
Operator Motor Head Rating:	NEMA 4 *
Motor type:	DC Gear Reduced
Motor Voltage:	48-54 VDC
Limits determination:	Physical/Self Calibrating
Duty cycle rating:	Continuous
Operating temp range:	-22 deg F to 212 deg F
Overload protection:	Inherent motor current sensing
Door shaft type required:	Live Axle
Fits torsion shafts diameter:	1"
Side clearance required:	4.5" beyond outer edge of track
Replacement red motor PN	600805
Replacement belt PN/size	825-D PN600615 (AX25)

*When installing this unit in a wet location a protective piece of shrink wrap must be applied over the motor plug connection to meet NEMA4.



Options and Accessories

Fraba Optoeye

UL 325 Compliant Monitored Entrapment Protection Device

The Opto Eye is a Nema 4X, UL 325 compliant monitored entrapment device designed for durability in all commercial applications. ZAP Part# 401002

Battery Back Up

The battery back-up system provides safety and security for you and your commercial sectional door during power outages. ZAP Part# 8830

Auxiliary Input Expansion Module

The Input Expansion module for the expansion of input functions beyond the available connections on the main control board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply. ZAP Part# 871

Fire Station module

The Fire Station module allows the incorporation of a second set of photo cells above man traffic height that will prevent the auto-close timer from timing out and closing a door before the vehicle has departed the facility. Once the vehicle has departed the opening fully, the timer is released to count down and close the door. ZAP Part# 871FS requires also Part# 401001 Photo Cells

Auxiliary modules

Various modules are available to facilitate interlock and accessory functions. Dock leveler interlock, door open interlock, door closed interlock, traffic light control, driver communication light control, warning devices, and accessory controls can be achieved by adding the appropriate module.

Action required

Module used

Truck restraint interlock Requires external N/O relay to close when restraint is engaged	None
Dock leveler interlock to a prevent operation relay on the dock leveler control panel	82DTLM
Dock leveler interlock to a live voltage control circuit 120VAC-240VAC less than 5amp	82DTLM
Dock leveler interlock to a live voltage control circuit 120VAC-240VAC in excess of 5amp	82DTLM & ZA0192
Driver communication light control (Requires Red Green Traffic Light)	82DTLM
Door open interlock (Used for bug screen doors that use a shared track system)	82DTLM
Above functions but with advance closure warning (Requires setting close delay programming function) (Requires Warning Device) Substitute 82DTLM with	822
Sally Port (Interlock 2 doors requiring 1 door is closed before other can open)	82TLM
Through traffic light control (Door Open-green light/Any other position-red light)	82TLM
Above functions but with advance closure warning (Requires setting close delay programming function) (Requires Warning Device) Substitute 82TLM with	821

Accessory Control Functions

Terminal Used

82DTLM Accessory on/ door fully open/ off any other position Accessory on/ door start open/ off when fully closed Accessory on/ door fully closed/ off any other position	I-lock Red light Green light
82TLM Accessory on/ door fully closed / off any other position Accessory on/ door fully open/ off any other position Accessory off/ door fully open / on any other position	I-lock Green light Red light