Model 8825-3-HPB DC Commercial Sectional 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 sectional 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 thrown torsion cables on sectional doors that have closed onto dock equipment, debris, snow, and ice left in the door opening, saving companies thousands of dollars annually on unnecessary service costs.

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

Provides universal mounting configurations on sectional doors regardless of the lift configuration or the limitations of space 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 the amp draw on a 115VAC single phase supply by up to 80%.

ZAP Series 3 Commercial Operators are by design

Simply Logical

ZAP Controls UK
19 Chasewater Heath Business Park
Cobbett Road
Burntwood
Staffordshire
WS7 3GL
England

Sales Contact
UK Office
Email
North American sales:
Email
Technical Assistance
Email
Online support & online training
Toll-free support USA/Canada:
Elsewhere in the world:

+++44-1543-278000
sales@zap-uk.com
+++44-787-948-2440
sales@zap-america.com
tech@zap-uk.com
www.zap-uk.com
www.zap-america.com
888-467-5751
+++44-1543-278000

Standard features of the ZAP 8825-3-HP Operator
SafetySense™ Door safety monitoring system
The industry’s most advanced sectional 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 24v 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
Model 8825-3-HPB DC Commercial Sectional Door Operator
Commercial Operators that use SafetySense™

<table>
<thead>
<tr>
<th>Lift Requirement</th>
<th>Low Headroom</th>
<th>Standard Lift</th>
<th>High Lift to 54&quot;</th>
<th>High Lift above 54&quot;</th>
<th>Vertical Lift</th>
</tr>
</thead>
<tbody>
<tr>
<td>10'-24&quot; W x 6'-6&quot; H</td>
<td>8825-3-HPB</td>
<td>8825-3-HPB</td>
<td>8825-3-HPB</td>
<td>8825-3-HPB</td>
<td>8825-3-HPB</td>
</tr>
<tr>
<td>10'-20&quot; W x 12'-6&quot; H</td>
<td>8825-3-HPB</td>
<td>8825-3-HPB</td>
<td>8825-3-HPB</td>
<td>See 8825-3-HPC</td>
<td>See 8825-3-HPD</td>
</tr>
</tbody>
</table>

Please read the instructions fully or attend training online before installation. Consult factory for door sizes beyond scope provided above. The maximum door weight for sizes listed above is 1800 Lbs. The minimum door height 7'.

Technical information for the 8825-5HPB Series 3

Controller case rating: NEMA 4X/IP66
Controller dimensions: 8.7"H x 10.6"W x 4.5"D
Amp draw: 5.8A
Control circuit voltage: 6VDC
Power rating: 2000 Newtons Equiv. 1.5HP
Operator Motor Head Rating: NEMA 4
Motor type: DC Gear Reduced
Motor cover dimensions: N/A
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
Torsion shaft type required: Solid w/keyway or hollow tube
Fits torsion shafts diameter: 1"
Torsion shaft length required: 4.5" beyond outer edge of track
Side clearance required: 5" min for motor only
Replacement motor PN: 600814
Replacement belt PN/size: 8825-HPB PN600617 (AX29)

*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

Integrated Auto-Lock
The Auto-Lock provides integrated security with an electronic solenoid locking system that releases a shoot bolt above a roller when door is stopped and withdraws prior to door operation. ZAP Part# 8070

Rear torsion mounting kit
Provides a long Bowden cable to enable the belt tensioning system to reach rear torsion mounted operators. ZAP Part# 501262 5.5m Bowden Cable ZAP Part# 401002 large offset torque arm.

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 boar 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

<table>
<thead>
<tr>
<th>Action required</th>
<th>Module used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truck restraint interlock</td>
<td>None</td>
</tr>
<tr>
<td>Requires external N/O relay to close when restraint is engaged</td>
<td>82DLTM</td>
</tr>
<tr>
<td>Dock leveler interlock to a prevent operation relay on the dock leveler control panel</td>
<td>82DLTM</td>
</tr>
<tr>
<td>Dock leveler interlock to a live voltage control circuit</td>
<td>82DLTM &amp; 2A0192</td>
</tr>
<tr>
<td>120VAC-240VAC less than Samp</td>
<td>82DLTM</td>
</tr>
<tr>
<td>Dock leveler interlock to a live voltage control circuit</td>
<td>82DLTM</td>
</tr>
<tr>
<td>120VAC-240VAC in excess of Samp</td>
<td>82DLTM</td>
</tr>
<tr>
<td>Driver communication light control</td>
<td>82DLTM</td>
</tr>
<tr>
<td>(Requires Red Green Traffic Light)</td>
<td>82DLTM</td>
</tr>
<tr>
<td>Door open interlock</td>
<td>82DLTM</td>
</tr>
<tr>
<td>(Used for bug screen doors that use a shared track system)</td>
<td>82DLTM</td>
</tr>
<tr>
<td>Above functions but with advance close warning</td>
<td>822</td>
</tr>
<tr>
<td>(Requires setting close delay programming function)</td>
<td>82DLTM</td>
</tr>
<tr>
<td>(Requires Warning Device) Substitute 82DLTM with 822</td>
<td></td>
</tr>
<tr>
<td>Sally Port</td>
<td>82DLTM</td>
</tr>
<tr>
<td>(Interlock 2 doors requiring 1 door is closed before other can open)</td>
<td>822</td>
</tr>
<tr>
<td>Through traffic light control</td>
<td>82DLTM</td>
</tr>
<tr>
<td>(Door Open-green light/Any other position-red light)</td>
<td>82DLTM</td>
</tr>
<tr>
<td>Above functions but with advance close warning</td>
<td>821</td>
</tr>
<tr>
<td>(Requires setting close delay programming function)</td>
<td>82DLTM</td>
</tr>
<tr>
<td>(Requires Warning Device) Substitute 82DLTM with 821</td>
<td></td>
</tr>
</tbody>
</table>

Accessory Control Functions

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

| 82TLM |
| Accessory on/ door fully closed/ off any other position | Green light |
| Accessory on/ door fully open/ off any other position | Red light |
Model 8825-3-HPC/D DC Commercial Sectional 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 sectional 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 thrown torsion cables on sectional doors that have closed onto dock equipment, debris, snow, and ice left in the door opening, saving companies thousands of dollars annually on unnecessary service costs.

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

Provides universal mounting configurations on sectional doors regardless of the lift configuration or the limitations of space 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 the amp draw on a 115VAC single phase supply by up to 80%.

ZAP Series 3 Commercial Operators are by design

Simply Logical

Sales Contact
UK Office
North American sales:
Technical Assistance
Email
Online support & online training
Toll-free support USA/Canada:
Elsewhere in the world:

++44-1543-278000
sales@zap-uk.com
++44-787-948-2440
sales@zap-america.com
tech@zap-uk.com
www.zap-uk.com
www.zap-america.com
888-467-5751
++44-1543-278000

Standard features of the ZAP 8825-3-HP Operator
SafetySense™ Door safety monitoring system
The industry’s most advanced sectional 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 24V 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
Model 8825-3-HPC/D DC Commercial Sectional Door Operator
Commercial Operators that use SafetySense™

<table>
<thead>
<tr>
<th>Lift Requirement</th>
<th>Low Headroom Lift</th>
<th>Standard Lift</th>
<th>High Lift to 54”</th>
<th>High Lift above 54”</th>
<th>Vertical Lift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Size W X H</td>
<td>10’-24’W X 16’-20’H</td>
<td>8825-3-HPC</td>
<td>8825-3-HPC</td>
<td>8825-3-HPC</td>
<td>8825-3-HPD</td>
</tr>
</tbody>
</table>

Please read the instructions fully or attend training online before installation. Consult factory for door sizes beyond scope provided above. Operators are pre configured to accept 1.25” shaft. For 1” shafts order adapter insert PN ZA0191. The maximum door weight for sizes listed above is 1800 Lbs. The minimum door height 10’.

Technical information for the 8825-HPC/D Series 3
Controller case rating: NEMA 4X/IP66
Controller dimensions: 8.7”H X 10.6”W X 4.5”D
Amp draw: 5.8A
Control circuit voltage: 6VDC
Power rating: 2000 Newtons Equiv. 1.5HP
Operator Motor Head Rating: NEMA 4* DC Gear Reduced
Motor type: N/A
Motor cover dimensions: 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
Torsion shaft type required: Solid w/keyway
Fits torsion shafts diameter: 1.5” Standard/ 1” with included adapter
Torsion shaft length required: 4.5” beyond outer edge of track
Side clearance required: 5” min for motor only
Replacement motor PN: 600814
Replacement belt PN/size: 8825-HPC PN600621 (AX38) 8825-HPD PN600621 (AX41)

*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

Integrated Auto-Lock
The Auto-Lock provides integrated security with an electronic solenoid locking system that releases a shoot bolt above a roller when door is stopped and withdraws prior to door operation. ZAP Part# 8070

Rear torsion mounting kit
Provides a long Bowden cable to enable the belt tensioning system to reach rear torsion mounted operators.
ZAP Part# 501262 5.5m Bowden Cable ZAP Part# 401002 large offset torque arm.

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 boor 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 Samp
82DTLM
Dock leveler interlock to a live voltage control circuit
120VAC-240VAC in excess of Samp
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
82TLM
(Interlock 2 doors requiring 1 door is closed before other can open)
Through traffic light control
82TLM
(Door Open-green light/Any other position-red light)
Above functions but with advance closure warning
(Requires setting close delay programming function)
(Requires Warning Device) Substitute 82TLM with
821
Accessory Control Functions
82DTLM
Accessory on/ door fully open / off any other position
I-lock
Accessory on/ door start open/ off when fully closed
Red light
Accessory on/ door fully closed/ off any other position
Green light
Accessory on/ door fully closed / off any other position
82TLM
Accessory off/ door fully open / on any other position
I-lock
Accessory off/ door fully open / off any other position
Green light
Accessory off/ door fully closed / off any other position
Red light

8825-3-HPC/D USA

12