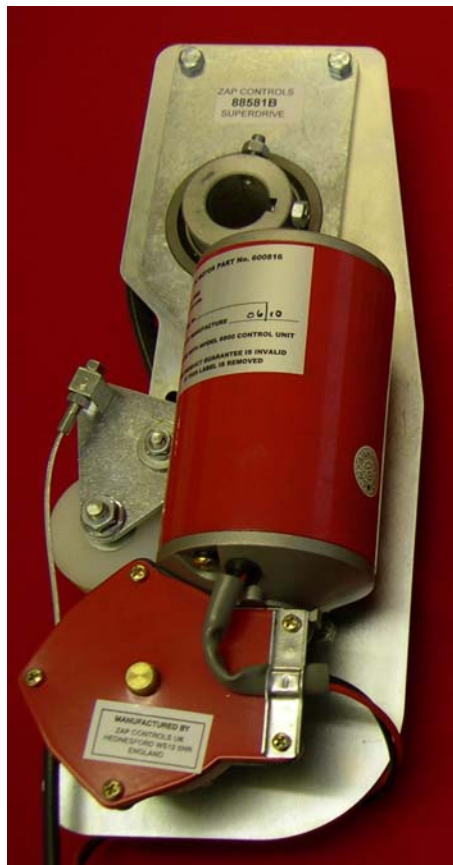


ZAP Controls

Series 3 Commercial Operator Catalog



Defy All Other Logic
ZAP Series 3 Commercial Garage Door Operators



ZAP Series 3 Simply Logical

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100 Waterloo Blvd. Anglesey Business Park, Littleworth Road, Cannock, Staffordshire, England
UK Office Number 011-44-154-387-9444 sales@zap-uk.com
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ZAP Controls
Series 3 Commercial Operator Catalog

ZAP Controls

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ZAP Controls

Series 3 Commercial Operator Brochures and Specifications

ZAP Controls

Series 3 Commercial Operator Brochures and Specifications



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ZAP Controls

825 Series 3 Super Drive

Safety

- NEMA 4X compliance for the controller as a standard feature
- Compact size reduces potential for lifting injuries during installation
- Universal torsion shaft mounting system reduces the potential for unsafe work practices during installation
- Fully adjustable automatic obstruction sensing system detects obstructions on any part of the door in the open or close direction while monitoring the entire door movement for unsafe operation or service conditions
- Inherent soft start-soft stop, safety stop-reverse eliminates the mechanical stress damage to the door when the door reverses
- Self determining limit system prevents thrown cables from debris, ice, and snow left in the door opening

Value

- Continuous duty rated low voltage motor
- Ultra-Quiet DC Motor, will not thermally overload
- No extra costs to have controller achieve NEMA 4/IP 66 rating.
- Wet location motor cover included
- Built in service due reminder may be activated to ensure regular maintenance based on cycles of usage
- Fully programmable timer-to-close
- Built in interlock terminals to prevent door operation
- Programmable mid-stop
- Motor maximum amperage draw 2.8 Amps reducing number circuits required for multiple door applications
- Automatic obstruction sensing system surpasses the capabilities of a sensing edge detecting obstructions on any part of the door, eliminating the cost of a safety edge and associated wiring
- Reduces the occurrence of catastrophic damage to the door

Simplicity

- Simple one person installation that eliminate steel build ups, back hangs, welding, and specialty anchors
- Simplistic maintenance design concept
- PCB based system controller eliminates the cost of servicing electrical contactors, limit systems, and countless other parts
- When the operator emergency release lever is disengaged the door easily operates by hand
- Operates all lifts of sectional doors with counter-weights or torsion springs, including rear mount torsion
- Versatile sectional door application mounting. May be mounted vertically, horizontally, upside down, inside the cable drum, rear mount torsion, all without requiring wall or ceiling mount
- Simple wiring configurations and accessory modules that eliminate external limit relays to achieve various interlock configurations

Reliability

- Industrial components ensure years of service
- Motor and controller eliminates the problem of stuck motor switches, limit system failures, burned out starting capacitors and A/C motor malfunctions

ZAP Series 3

Simply Logical

Not For Use In Residential Applications

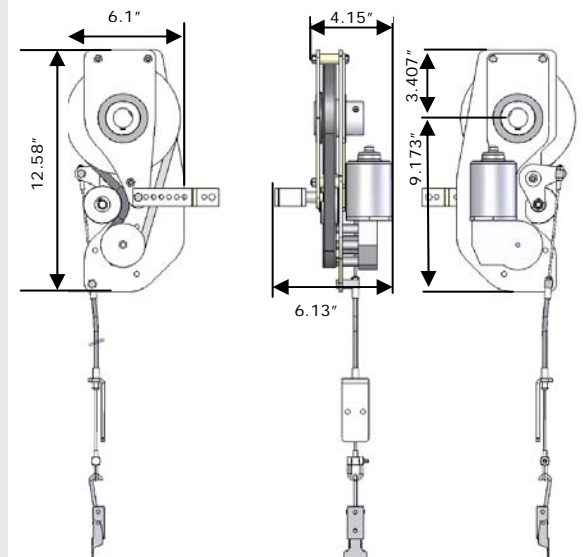
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ZAP Controls
825 Series 3 Super-Drive
 Torsion Shaft Mounted DC Commercial Sectional Door Operator

Technical information for the 825 Series 3

Controller case/push button	NEMA 4X/IP66
Controller dimensions:	8.7"H X 6.5"W X 4.7"D
Motor cover dimensions:	13.25"H X 6.5"W X 6.25"D
Single phase voltage:	115V US, 208-230V US, 230V EU
Amp draw:	2.8A
Power rating	650 Newtons Equivalent 1/2 HP
Control circuit voltage:	6VDC
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
Lubrication:	Permanent
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:	4.5" min for motor only
Side clearance required:	7" with motor cover applied
Replacement red motor PN	600805
Replacement belt PN/size	825-B 600612 (AX22) 825-C 600602 (AX23) 825-D 600615 (AX25)



ZAP Controls

825 Series 3 Super-Drive

Commercial DC Sectional Door Operator

Lift Requirement	Low Headroom	Standard Lift	High Lift to 54"	High Lift above 54"	Vertical Lift
Door Size W X H					
8'-20'W X 6'-8'6" H	825-3V-B	825-3V-B	825-3V-C	825-3V-D	825-3V-D
8'-10'W X 8'6"-10' H	825-3V-B	825-3V-B	825-3V-C	825-3V-D	See 8825-3V-D

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 600 Lbs. The minimum door height is 6'.

Standard Features

- Motor and Controller**
 Continuous duty rated DC Motor with controller, producing a powerful soft start/soft stop output of 650 Newtons of force to drive commercial sectional doors while reducing mechanical impacts that cause premature wear of door components.
- NEMA 4X rated controller case**
 ZAP Controllers and push buttons are NEMA 4X compliant as a standard.
- Motor Cover**
 A motor cover suitable for wet locations is provided.
- Drive Reduction**
 Worm drive gearbox & V-belt reduction drive with floor level, adjustable belt tensioning /emergency release lever.
- Wiring Type**
 C2 (factory default), B2 failsafe is standard with the addition of approved photo eye.
- Radio Control and External Receiver Terminals**
 Terminal strip provided inside the controller to provide quick, convenient connections for adding external radio control receivers from any desired manufacturer.
- Bearings and Belts**
 Drive systems use industrial grade bearings and automotive grade long life v-belts. Our simplistic service design concept allows simple service of components in a matter of moments.
- Construction**
 Heavy-duty 8-gauge electro-plate finish steel frame, industrial bearings, worm drive gear box, aluminum drive pulley, secured with key stock and set screw for simple servicing.
- Push Button Station**
 Control unit acts as the standard 3-button station for open/close/stop functions. Controller may be mounted remotely up to 24 feet away from the operator, provided it is to be wired with other external control devices that are designed to function as the primary door controls. Power supply is wired directly to the controller not the motor. Low voltage motor cable is supplied for easy wiring of the motor.

Value Added Standard Features

- Automatic Obstruction Sensing System**
 Inherent motor current sensing system monitors the entire door system for obstructions and unsafe operating conditions in both directions of travel. The system provides protections unavailable with traditional commercial operators and can automatically sense obstructions like locks, broken springs, unsafe service conditions, and other obstructions that cannot be detected by reversing edges and photo cells.
- Safety Stop and Reverse**
 Inherent motor current sensing system automatically incorporates and safety stop before reopening in soft start.
- Auto-Close Timer**
 Fully programmable auto-close timer automatically closes the door. (4 minutes) Requires the addition of approved photo cell.
- Part Open Programming (Programmable Mid Stop)**
 Programmable part open to stop door at predetermined height.
- Prevent door operation interlock**
 Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.

- Emergency Egress Manual Operation**
 Emergency manual operation using a ground level over-ride lever disconnect. When lever is released, the door will operate manually by hand as if no operator is connected to the door. This unique system eliminates the need to electrically interlock the disconnect as the operator has no mechanical limits and physically disconnects from all drive systems when released. It also provides ground level adjustment of the motor drive belt.
- Max run time protection**
 Inherent motor current sensing system provides automatic max runtime protection.
- Service Due reminder**
 May be activated to ensure regularly scheduled maintenance based on cycles of usage.
- Versatile mounting configurations**
 8825 may be mounted in standard vertical, horizontal, inverted, inverted center mount inside the cable drum, or rear mount torsion configurations. Some applications may require the use of a longer Bowden cable for proper installation.

Options and Accessories

- Fraba Optoeye UL 325 Compliant Monitored Entrapment Protection Device**
 401002 photo eye is a Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.
- Receivers and Transmitters**
 2, 4, and 6 button handheld and permanently mounted forklift transmitters are available for use with the model 840 receiver. The 840 receiver module can use either an internal or optional external antenna. Terminals are provided inside the controller to facilitate the use of a 24VDC external receiver from any radio control manufacturer.
- Auto-Lock**
 8070 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.
- Rear mount torsion kit**
 ZA0102 Bowden cable. 900005 Large offset torque arm.
- Battery Back Up**
 8830 Battery Back up systems allows operation of the operator during power outages.

Available Plug-in Modules

- Auxiliary Input Expansion Module**
 871 module allows for expansion of input functions beyond the available connections on the controls board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply.
- Fire Station module**
 871 FS 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.
- Dock interlock/Traffic light control w/adv. warning**
 82DTLM and the 822 Modules provide a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. 822 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided on 82DTLM may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 interface expansion modules.
- Closed interlock/Traffic light control w/adv. warning**
 82TLM and the 821 Modules provide a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to interlock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. 821 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.
- Loop Detectors**
 Both single, and twin loop detectors are available for either plug in or wall mount installation.

ZAP Controls

8825 Series 3 Super Drive

Safety

- NEMA 4X compliance for the controller as a standard feature
- Compact size reduces potential for lifting injuries during installation
- Universal torsion shaft mounting system reduces the potential for unsafe work practices during installation
- Fully adjustable automatic obstruction sensing system detects obstructions on any part of the door in the open or close direction while monitoring the entire door movement for unsafe operation or service conditions
- Inherent soft start-soft stop, safety stop-reverse eliminates the mechanical stress damage to the door when the door reverses
- Self determining limit system prevents thrown cables from debris, ice, and snow left in the door opening

Value

- Continuous duty rated low voltage motor
- Ultra-Quiet DC Motor, will not thermally overload
- No extra costs to have controller achieve NEMA 4/IP 66 rating.
- Built in Service Due reminder may be activated to ensure regular maintenance based on cycles of usage
- Fully programmable Timer-to-close
- Built in interlock terminals to prevent door operation
- Programmable mid-stop
- Motor maximum amperage draw 3.2 Amps reducing number circuits required for multiple door applications
- Automatic obstruction sensing system surpasses the capabilities of a sensing edge detecting obstructions on any part of the door, eliminating the cost of a safety edge and associated wiring
- Reduces the occurrence of catastrophic damage to the door

Simplicity

- Simple one person installation that eliminate steel build ups, back hangs, welding, and specialty anchors
- Simplistic maintenance design concept
- PCB based system controller eliminates the cost of servicing electrical contactors, limit systems, and countless other parts
- When the operator emergency release lever is disengaged the door easily operates by hand
- Operates all lifts of sectional doors with counter-weights or torsion springs, including rear mount torsion
- Versatile sectional door application mounting. May be mounted vertically, horizontally, upside down, inside the cable drum, rear mount torsion, all without requiring wall or ceiling mount
- Simple wiring configurations and accessory modules that eliminate external limit relays to achieve various interlock configurations

Reliability

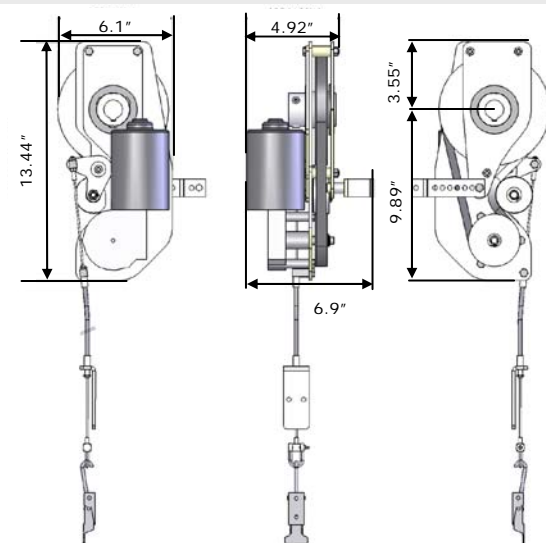
- Industrial components ensure years of service
- Long life phosphor bronze worm drive gear system
- DC Motor and controller eliminates the problem of stuck motor switches, limit system failures, burned out starting capacitors and A/C motor malfunctions



ZAP Controls
8825 Series 3 Super-Drive
Torsion Shaft Mounted DC Commercial Sectional Door Operator

Technical information for the 8825 Series 3

Controller case/push button	NEMA 4X/IP66
Controller dimensions:	8.7"H X 10.6"W X 4.5"D
Single phase voltage:	115V US, 208-230V US, 230V EU
Three phase voltage:	460V US (Special order) 8825(X)-3-460
Amp draw:	3.2A
Power rating	1300 Newtons Equivalent to 1 HP
Control circuit voltage:	6VDC
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
Lubrication:	Permanent
Torsion shaft type required:	Solid w/keyway or hollow tube
Torsion shaft length required:	4.5" beyond outer edge of track
Fits torsion shafts diameter:	1"
Side clearance required:	5" min for motor only
Replacement red motor P/N	600816
Replacement belt size	8825-B AX25.5 8825-C AX27 8825-D AX29



ZAP Series 3 Simply Logical

Not For Use In Residential Applications

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ZAP Controls

8825 Series 3 Super-Drive

Commercial DC Sectional Door Operator

Lift	Low Head Standard	High Lift 54"	to High Lift above 54"	Vertical Lift
Door Size W X H				
8'-14'W X 8'6"-14' H	8825-3-B	8825-3-B	8825-3-C	8825-3-D
14'-20'W X 8'6"-12'H	8825-3-B	8825-3-B	8825-3-C	8825-3-D
20'-24'W X 8'6"-10'H	8825-3-B	8825-3-B	8825-3-C	8825-3-D

Sectional Doors only
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 1200 Lbs.
The minimum door height 8'6".

Standard Features

- Motor and controller**
Continuous duty rated DC Motor with controller, producing a powerful soft start/soft stop output of 1300 Newtons of force to drive commercial rolling sheet doors while reducing mechanical impacts that cause premature wear of door components.
- NEMA 4X rated controller case**
ZAP Controllers and push buttons are NEMA 4X compliant as a standard.
- Drive reduction**
Worm drive gearbox & V-belt reduction drive with floor level, adjustable belt tensioning /emergency release lever.
- Wiring type**
C2 (factory default), B2 failsafe is standard with the addition of approved photo eye.
- Radio control and external receiver terminals**
Terminal strip provided inside the controller to provide quick, convenient connections for adding external radio control receivers from any desired manufacturer.
- Bearings and belts**
Drive systems use industrial grade bearings and automotive grade long life v-belts. Our simplistic service design concept allows simple service of components in a matter of moments.
- Construction**
Heavy-duty 8-gauge electro-plate finish steel frame, industrial bearings, phosphor bronze worm drive gears, aluminum drive pulley, secured with key stock and set screw for simple servicing.
- Push button station**
Control unit acts as the standard 3-button station for open/close/stop functions. Controller may mounted remotely up to 24 feet away from the operator, provided it is to be wired with other external control devices that are designed to function as the primary door controls. Power supply is wired directly to the controller not the motor. Low voltage motor cable is supplied for easy wiring of the motor.

Value Added Standard Features

- Automatic obstruction sensing system**
Inherent motor current sensing system monitors the entire door system for obstructions and unsafe operating conditions in both directions of travel. The system provides protections unavailable with traditional commercial operators and can automatically sense obstructions like locks, broken springs, unsafe service conditions, and other obstructions that cannot be detected by reversing edges and photo cells.
- Safety stop and reverse**
Inherent motor current sensing system automatically incorporates and safety stop before reopening in soft start.
- Auto-close timer**
Fully programmable auto-close timer automatically closes the door. (4 minutes) Requires the addition of approved photo cell.
- Part open programming (Programmable mid stop)**
Programmable part open to stop door at predetermined height.
- Prevent door operation interlock**
Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.

- Emergency egress manual operation**
Emergency manual operation using a ground level over-ride lever disconnect. When lever is released, the door will operate manually by hand as if no operator is connected to the door. This unique system eliminates the need to electrically interlock the disconnect as the operator has no mechanical limits and physically disconnects from all drive systems when released. It also provides ground level adjustment of the motor drive belt.
- Max run time protection**
Inherent motor current sensing system provides automatic max runtime protection.
- Service due reminder**
May be activated to ensure regularly scheduled maintenance based on cycles of usage.
- Versatile mounting configurations**
8825 may be mounted in standard vertical, horizontal, inverted, inverted center mount inside the cable drum, or rear mount torsion configurations. Some applications may require the use of a longer Bowden cable for proper installation.

Options and Accessories

- Fraba Optoeye UL 325 Compliant Monitored Entrapment Protection Device**
401002 photo eye is a Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.
- Receivers and transmitters**
2, 4, and 6 button handheld and permanently mounted forklift transmitters are available for use with the model 840 receiver. The 840 receiver module can use either an internal or optional external antenna. Terminals are provided inside the controller to facilitate the use of a 24VDC external receiver from any radio control manufacturer.
- Auto-Lock**
8070 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.
- Rear mount torsion kit**
ZA0102 Bowden cable. 900005 Large offset torque arm.
- Battery back up**
8830 Battery Back up systems allows operation of the operator during power outages.

Available Plug-in Modules

- Auxiliary input expansion module**
871 module allows for expansion of input functions beyond the available connections on the controls board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply.
- Fire station module**
871 FS 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.
- Dock interlock/Traffic light control w/adv. warning**
82DTLM and the 822 Modules provide a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. 822 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided on 82DTLM may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 interface expansion modules.
- Closed interlock/Traffic light control w/adv. warning**
82TLM and the 821 Modules provide a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to interlock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. 821 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.
- Loop detectors**
Both single, and twin loop detectors are available for either plug in or wall mount installation.

ZAP Controls

8826 Series 3 Super Drive

Safety

- NEMA 4X compliance for the controller as a standard feature
- Compact size reduces potential for lifting injuries during installation
- Universal torsion shaft mounting system reduces the potential for unsafe work practices during installation
- Fully adjustable automatic obstruction sensing system detects obstructions on any part of the door in the open or close direction while monitoring the entire door movement for unsafe operation or service conditions
- Inherent soft start-soft stop, safety stop-reverse eliminates the mechanical stress damage to the door when the door reverses
- Self determining limit system prevents thrown cables from debris, ice, and snow left in the door opening
- Self engaging chain hoist when operator emergency release is lifted

Value

- Continuous duty rated low voltage motor
- Ultra-Quiet DC Motor, will not thermally overload
- No extra costs to have controller achieve NEMA 4/IP 66 rating.
- Built in Service Due reminder may be activated to ensure regular maintenance based on cycles of usage
- Fully programmable Timer-to-close
- Built in interlock terminals to prevent door operation
- Programmable mid-stop
- Motor maximum amperage draw 3.2 Amps reducing number circuits required for multiple door applications
- Automatic obstruction sensing system surpasses the capabilities of a sensing edge detecting obstructions on any part of the door, eliminating the cost of a safety edge and associated wiring
- Reduces the occurrence of catastrophic damage to the door

Simplicity

- Simple one person installation that eliminate steel build ups, back hangs, welding, and specialty anchors
- Simplistic maintenance design concept
- PCB based system controller eliminates the cost of servicing electrical contactors, limit systems, and countless other parts
- When the operator emergency release lever is disengaged the door easily operates by hand
- Operates all lifts of sectional doors with counter-weights or torsion springs, including rear mount torsion
- Versatile sectional door application mounting. May be mounted vertically in either a left hand or right hand configuration without requiring wall or ceiling mount
- Simple wiring configurations and accessory modules that eliminate external limit relays to achieve various interlock configurations

Reliability

- Industrial components ensure years of service
- Long life phosphor bronze worm drive gear system
- DC Motor and controller eliminates the problem of stuck motor switches, limit system failures, burned out starting capacitors and A/C motor malfunctions

ZAP Series 3 Simply Logical

Not For Use In Residential Applications

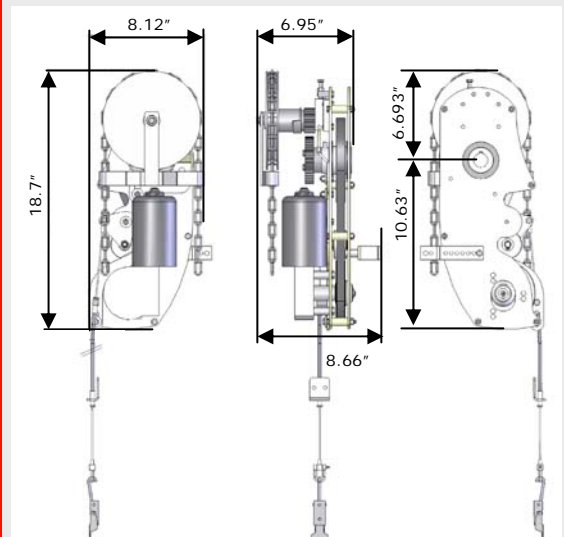
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ZAP Controls
8826 Series 3.0 Super-Drive
Torsion Shaft Mounted DC Chain Hoist Commercial Sectional Door Operator

Technical information for the 8826 Series 3

Controller Case/Push button	NEMA 4X/IP66
Controller Dimensions:	8.7"H X 10.6"W X 4.5"D
Single phase voltage:	115V US, 208-230V US, 230V EU
Three phase voltage:	460V US (Special order) 8825(X)-3-460
Amp draw:	3.2A
Power rating:	1300 Newtons Equivalent to 1 HP
Control circuit voltage:	6VDC
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
Lubrication:	Permanent
Chain hoist reduction:	2:1
Torsion shaft type required:	Solid w/keyway or hollow tube
Fits Torsion shafts diameter:	1"
Torsion shaft length required:	5.5" beyond outer edge of track
Side clearance required:	7" min for motor only
Replacement red motor P/N:	600816
Replacement belt size:	8826-B 600611 (AX26) 8826-C 600616 (AX28) 8826-D 600603 (AX30)



ZAP Controls

8826 Series 3 Super-Drive

Chain Hoist DC Sectional Door Operator

Lift	Low Head	Standard	High Lift 54"	High Lift above 54"	Vertical Lift
Door Size W X H					
8'-14"W X 8'6"-14' H	8826-3-B	8826-3-B	8826-3-C	8826-3-D	8826-3-D
14'-20"W X 8'6"-12'H	8826-3-B	8826-3-B	8826-3-C	8826-3-D	8826-3-D
20'-24"W X 8'6"-10'H	8826-3-B	8826-3-B	8826-3-C	8826-3-D	8826-3-D
Sectional Doors only 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 1200 Lbs. The minimum door height 8'6".					

Standard Features

- Motor and controller**
 Continuous duty rated DC Motor with controller, producing a powerful soft start/soft stop output of 1300 Newtons of force to drive commercial sectional doors while reducing mechanical impacts that cause premature wear of door components.
- NEMA 4X rated controller case**
 ZAP Controllers and push buttons are NEMA 4X compliant as a standard.
- Drive reduction**
 Worm drive gearbox & V-belt reduction drive with floor level, adjustable Belt tensioning /emergency release lever.
- Wiring type**
 C2 (factory default), B2 failsafe is standard with the addition of approved photo eye.
- Radio control and external receiver terminals**
 Terminal strip provided inside the controller to provide quick, convenient connections for adding external radio control receivers from any desired manufacturer.
- Bearings and belts**
 Drive systems use industrial grade bearings and automotive grade long life v-belts. Our simplistic service design concept allows simple service of components in a matter of moments.
- Construction**
 Heavy-duty 8-gauge electro-plate finish steel frame, industrial bearings, phosphor bronze worm drive gears, aluminum drive pulley, secured with key stock and set screw for simple servicing.
- Push button station**
 Control unit acts as the standard 3-button station for open/close/stop functions. Controller may mounted remotely up to 24 feet away from the operator, provided it is to be wired with other external control devices that are designed to function as the primary door controls. Power supply is wired directly to the controller not the motor. Low voltage motor cable is supplied for easy wiring of the motor.
- Chain hoist**
 Self engaging chain hoist when operator emergency release is lifted.

Value Added Standard Features

- Automatic Obstruction Sensing System**
 Inherent motor current sensing system monitors the entire door system for obstructions and unsafe operating conditions in both directions of travel. The system provides protections unavailable with traditional commercial operators and can automatically sense obstructions like locks, broken springs, unsafe service conditions, and other obstructions that cannot be detected by reversing edges and photo cells.
- Safety stop and reverse**
 Inherent motor current sensing system automatically incorporates and safety stop before reopening in soft start.
- Auto-close timer**
 Fully programmable auto-close timer automatically closes the door. (4 minutes) Requires the addition of approved photo cell.
- Part open programming (Programmable mid stop)**
 Programmable part open to stop door at predetermined height.
- Prevent door operation interlock**
 Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.

- Emergency egress manual operation**
 Emergency manual operation using a ground level over-ride lever disconnect. When lever is released, the door will operate manually by hand as if no operator is connected to the door. This unique system eliminates the need to electrically interlock the disconnect as the operator has no mechanical limits and physically disconnects from all drive systems when released. It also provides ground level adjustment of the motor drive belt.
- Max run time protection**
 Inherent motor current sensing system provides automatic max runtime protection.
- Service due reminder**
 May be activated to ensure regularly scheduled maintenance based on cycles of usage.
- Versatile mounting configurations**
 8826 may be mounted in vertically in either a left hand or right hand configuration.

Options and Accessories

- Fraba Optoeye UL 325 Compliant Monitored Entrapment Protection Device**
 401002 photo eye is a Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.
- Receivers and transmitters**
 2, 4, and 6 button handheld and permanently mounted forklift transmitters are available for use with the model 840 receiver. The 840 receiver module can use either an internal or optional external antenna. Terminals are provided inside the controller to facilitate the use of a 24VDC external receiver from any radio control manufacturer.
- Auto-lock**
 8070 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.
- Rear mount torsion kit**
 ZA0102 Bowden cable. 900005 Large offset torque arm.
- Battery back up**
 8830 Battery Back up systems allows operation of the operator during power outages.

Available Plug-in Modules

- Auxiliary input expansion module**
 871 module allows for expansion of input functions beyond the available connections on the controls board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply.
- Fire Station module**
 871 FS 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.
- Dock interlock/Traffic light control w/adv. warning**
 82DTLM and the 822 Modules provide a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. 822 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided on 82DTLM may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 interface expansion modules.
- Closed interlock/Traffic light control w/adv. warning**
 82TLM and the 821 Modules provide a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to interlock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. 821 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.
- Loop detectors**
 Both single, and twin loop detectors are available for either plug in or wall mount installation.

ZAP Controls

8825-HPB Series 3 Super Drive

Safety

- NEMA 4X compliance for the controller as a standard feature
- Compact size reduces potential for lifting injuries during installation
- Universal torsion shaft mounting system reduces the potential for unsafe work practices during installation
- Fully adjustable automatic obstruction sensing system detects obstructions on any part of the door in the open or close direction while monitoring the entire door movement for unsafe operation or service conditions
- Inherent soft start-soft stop, safety stop-reverse eliminates the mechanical stress damage to the door when the door reverses
- Self determining limit system prevents thrown cables from debris, ice, and snow left in the door opening

Value

- Continuous duty rated low voltage motor
- Ultra-Quiet DC Motor, will not thermally overload
- No extra costs to have controller achieve NEMA 4/IP 66 rating.
- Built in Service Due reminder may be activated to ensure regular maintenance based on cycles of usage
- Fully programmable Timer-to-close
- Built in interlock terminals to prevent door operation
- Programmable mid-stop
- Motor maximum amperage draw 5.8 Amps reducing number circuits required for multiple door applications
- Automatic obstruction sensing system surpasses the capabilities of a sensing edge detecting obstructions on any part of the door, eliminating the cost of a safety edge and associated wiring
- Reduces the occurrence of catastrophic damage to the door

Simplicity

- Simple one person installation that eliminate steel build ups, back hangs, welding, and specialty anchors
- Simplistic maintenance design concept
- PCB based system controller eliminates the cost of servicing electrical contactors, limit systems, and countless other parts
- When the operator emergency release lever is disengaged the door easily operates by hand
- Operates all lifts of sectional doors with counter-weights or torsion springs, including rear mount torsion
- Versatile sectional door application mounting. May be mounted vertically, horizontally, upside down, inside the cable drum, rear mount torsion, all without requiring wall or ceiling mount
- Simple wiring configurations and accessory modules that eliminate external limit relays to achieve various interlock configurations

Reliability

- Industrial components ensure years of service
- Long life phosphor bronze worm drive gear system
- DC Motor and controller eliminates the problem of stuck motor switches, limit system failures, burned out starting capacitors and A/C motor malfunctions

ZAP Series 3.0

Simply Logical

Not For Use In Residential Applications

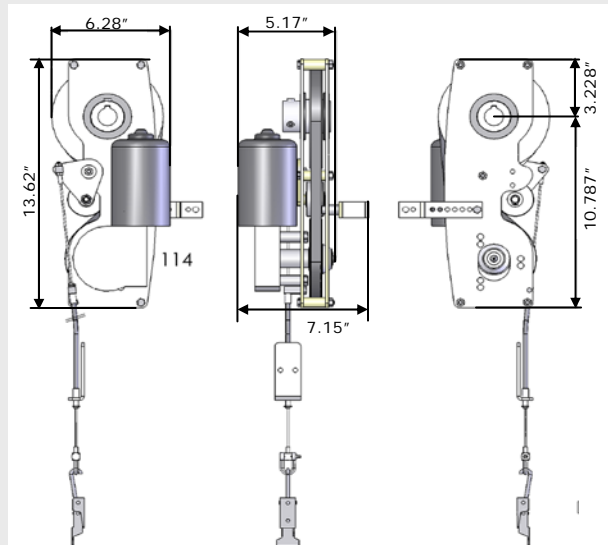
ZAP Controls
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USA Contact 931-510-4432 sales@zap-america.com
USA Tech Support 931-510-4432 via telephone or text
Online www.zap-uk.com



ZAP Controls
8825-HPB Series 3.0 Super-Drive
Torsion Shaft Mounted DC Commercial Sectional Door Operator

Technical information for the 8825 HP B Series 3

Controller case/push button	NEMA 4X/IP66
Controller dimensions:	8.7"H X 10.6"W X 4.5"D
Single phase voltage:	115V US, 208-230V US, 230V EU
Three phase voltage:	460V US (Special order) 8825(X)-3-460
Amp draw:	5.8A
Power rating	2000 Newtons Equivalent 1.5 HP
Control circuit voltage:	6VDC
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
Lubrication:	Permanent
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:	5.5" min for motor only
Replacement red motor P/N	600814
Replacement belt size	8825-HPB 600617 (AX29)



8825 3 HPB USA

ZAP Controls

8825-HPB Series 3 Super-Drive

Commercial DC Sectional Door Operator

Lift Requirement	Low Headroom	Standard Lift	High Lift to 54"	High Lift above 54"	Vertical Lift
Door Size W X H					
10'-24"W X 8'-12"H	8825-3-HPB	8825-3-HPB	8825-3-HPB	8825-3-HPB	8825-3-HPB
10'-20"W X 12'-15"H	8825-3-HPB	8825-3-HPB	8825-3-HPB	See 8825-3-HPC	See 8825-3-HPD

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 8'6".

Standard Features

- **Motor and controller**
Continuous duty rated DC Motor with controller, producing a powerful soft start/soft stop output of 2000 Newtons of force to drive commercial sectional doors while reducing mechanical impacts that cause premature wear of door components.
- **NEMA 4X rated controller case**
ZAP Controllers and push buttons are NEMA 4X compliant as a standard.
- **Drive reduction**
Worm drive gearbox & V-belt reduction drive with floor level, adjustable belt tensioning /emergency release lever.
- **Wiring type**
C2 (factory default), B2 failsafe is standard with the addition of approved photo eye.
- **Radio control and external receiver terminals**
Terminal strip provided inside the controller to provide quick, convenient connections for adding external radio control receivers from any desired manufacturer.
- **Bearings and belts**
Drive systems use industrial grade bearings and automotive grade long life v-belts. Our simplistic service design concept allows simple service of components in a matter of moments.
- **Construction**
Heavy-duty 8-gauge electro-plate finish steel frame, industrial bearings, phosphor bronze worm drive gears, aluminum drive pulley, secured with key stock and setscrew for simple servicing.
- **Push button station**
Control unit acts as the standard 3-button station for open/close/stop functions. Controller may mounted remotely up to 24 feet away from the operator, provided it is to be wired with other external control devices that are designed to function as the primary door controls. Power supply is wired directly to the controller not the motor. Low voltage motor cable is supplied for easy wiring.

Value Added Standard Features

- **Automatic obstruction sensing system**
Inherent motor current sensing system monitors the entire door system for obstructions and unsafe operating conditions in both directions of travel. The system provides protections unavailable with traditional commercial operators and can automatically sense obstructions like locks, broken springs, unsafe service conditions, and other obstructions that cannot be detected by reversing edges and photo cells.
- **Safety stop and reverse**
Inherent motor current sensing system automatically incorporates and safety stop before reopening in soft start.
- **Auto-close timer**
Fully programmable auto-close timer automatically closes the door. (4 minutes) Requires the addition of approved photo cell.
- **Part open programming (Programmable mid stop)**
Programmable part open to stop door at predetermined height.
- **Prevent door operation interlock**
Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.

- **Emergency egress manual operation**
Emergency manual operation using a ground level over-ride lever disconnect. When lever is released, the door will operate manually by hand as if no operator is connected to the door. This unique system eliminates the need to electrically interlock the disconnect as the operator has no mechanical limits and physically disconnects from all drive systems when released. It also provides ground level adjustment of the motor drive belt.
- **Max run time protection**
Inherent motor current sensing system provides automatic max runtime protection.
- **Service due reminder**
May be activated to ensure regularly scheduled maintenance based on cycles of usage.
- **Versatile mounting configurations**
8825-3-HPB may be mounted in standard vertical, horizontal, inverted, inverted center mount inside the cable drum, or rear mount torsion configurations. Some applications may require the use of a longer Bowden cable for proper installation.

Options and Accessories

- **Fraba Optoeye UL 325 Compliant Monitored Entrapment Protection Device**
401002 photo eye is a Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.
- **Receivers and transmitters**
2, 4, and 6 button handheld and permanently mounted forklift transmitters are available for use with the model 840 receiver. The 840 receiver module can use either an internal or optional external antenna. Terminals are provided inside the controller to facilitate the use of a 24VDC external receiver from any radio control manufacturer.
- **Auto-lock**
8070 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.
- **Rear mount torsion kit**
ZA0102 Bowden cable. 900005 Large offset torque arm.
- **Battery back up**
8830 Battery Back up systems allows operation of the operator during power outages.

Available Plug-in Modules

- **Auxiliary input expansion module**
871 module allows for expansion of input functions beyond the available connections on the controls board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply.
- **Fire station module**
871 FS 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.
- **Dock interlock/Traffic light control w/adv. warning**
82DTLM and the 822 Modules provide a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. 822 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided on 82DTLM may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 interface expansion modules.
- **Closed interlock/Traffic light control w/adv. warning**
82TLM and the 821 Modules provide a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to interlock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. 821 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.
- **Loop detectors**
Both single, and twin loop detectors are available for either plug in or wall mount installation.

ZAP Controls

8825-HPC/D Series 3 Super Drive

Safety

- NEMA 4X compliance for the controller as a standard feature
- Compact size reduces potential for lifting injuries during installation
- Universal torsion shaft mounting system reduces the potential for unsafe work practices during installation
- Fully adjustable automatic obstruction sensing system detects obstructions on any part of the door in the open or close direction while monitoring the entire door movement for unsafe operation or service conditions
- Inherent soft start-soft stop, safety stop-reverse eliminates the mechanical stress damage to the door when the door reverses
- Self determining limit system prevents thrown cables from debris, ice, and snow left in the door opening

Value

- Continuous duty rated low voltage motor
- Ultra-Quiet DC Motor, will not thermally overload
- No extra costs to have controller achieve NEMA 4/IP 66 rating.
- Built in Service Due reminder may be activated to ensure regular maintenance based on cycles of usage
- Fully programmable Timer-to-close
- Built in interlock terminals to prevent door operation
- Programmable mid-stop
- Motor maximum amperage draw 5.8 Amps reducing number circuits required for multiple door applications
- Automatic obstruction sensing system surpasses the capabilities of a sensing edge detecting obstructions on any part of the door, eliminating the cost of a safety edge and associated wiring
- Reduces the occurrence of catastrophic damage to the door

Simplicity

- Simple one person installation that eliminate steel build ups, back hangs, welding, and specialty anchors
- Simplistic maintenance design concept
- PCB based system controller eliminates the cost of servicing electrical contactors, limit systems, and countless other parts
- When the operator emergency release lever is disengaged the door easily operates by hand
- Operates all lifts of sectional doors with counter-weights or torsion springs, including rear mount torsion
- Versatile sectional door application mounting. May be mounted vertically, horizontally, upside down, inside the cable drum, rear mount torsion, all without requiring wall or ceiling mount
- Simple wiring configurations and accessory modules that eliminate external limit relays to achieve various interlock configurations

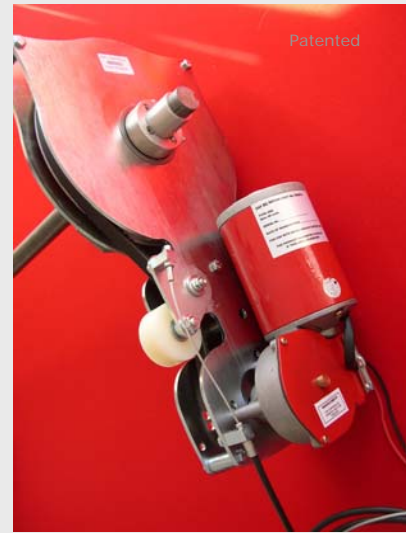
Reliability

- Industrial components ensure years of service
- Long life phosphor bronze worm drive gear system
- DC Motor and controller eliminates the problem of stuck motor switches, limit system failures, burned out starting capacitors and A/C motor malfunctions

ZAP Series 3 Simply Logical

Not For Use In Residential Applications

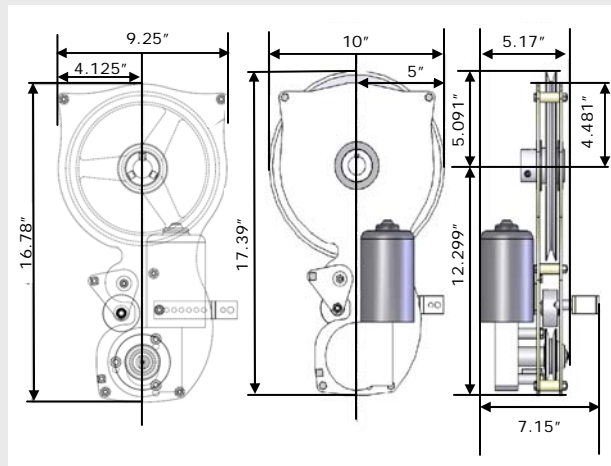
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Online www.zap-uk.com



ZAP Controls
8825-HPC/D Series 3 Super-Drive
 Torsion Shaft Mounted DC Commercial Sectional Door Operator

Technical information for the 8825 HP B Series 3

Controller Case/Push button	NEMA 4X/IP66
Controller Dimensions:	8.7"H X 10.6"W X 4.5"D
Single phase voltage:	115V US, 208-230V US, 230V EU
Three phase voltage:	460V US (Special order) 8825(X)-3-460
Amp draw:	5.8A
Power rating	2000 Newtons Equivalent 1.5 HP
Control circuit voltage:	6VDC
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
Lubrication:	Permanent
Torsion shaft type required:	Solid w/keyway
Fits Torsion shafts diameter:	1.25" / 1" with adapter insert
Adapter to 1" torsion shafts	PN ZA0191
Torsion shaft length required:	4.5" beyond outer edge of track
Side clearance required:	5.5" min for motor only
Replacement red motor P/N	600814
Replacement belt size	8825-HPC 600621 (AX38) 8825-HPD 600621 (AX41)



ZAP Controls

8825-HPC/D Series 3 Super-Drive

Commercial DC Sectional Door Operator

Lift Requirement	Low Headroom	Standard Lift	High Lift to 54"	High Lift above 54"	Vertical Lift
Door Size W X H					
10'-24"W X 16'-20"H	8825-3-HPC	8825-3-HPC	8825-3-HPC	8825-3-HPD	8825-3-HPD

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 9'6".

Standard Features

- **Motor and controller**
Continuous duty rated DC Motor with controller, producing a powerful soft start/soft stop output of 2000 Newtons of force to drive commercial sectional doors while reducing mechanical impacts that cause premature wear of door components.
- **NEMA 4X rated controller case**
ZAP Controllers and push buttons are NEMA 4X compliant as a standard.
- **Drive reduction**
Worm drive gearbox & V-belt reduction drive with floor level, adjustable belt tensioning /emergency release lever.
- **Wiring type**
C2 (factory default), B2 failsafe is standard with the addition of approved photo eye.
- **Radio control and external receiver terminals**
Terminal strip provided inside the controller to provide quick, convenient connections for adding external radio control receivers from any desired manufacturer.
- **Bearings and belts**
Drive systems use industrial grade bearings and automotive grade long life v-belts. Our simplistic service design concept allows simple service of components in a matter of moments.
- **Construction**
Heavy-duty 8-gauge electro-plate finish steel frame, industrial bearings, phosphor bronze worm drive gears, aluminum drive pulley, secured with key stock and set screw for simple servicing.
- **Push button station**
Control unit acts as the standard 3-button station for open/close/stop functions. Controller may mounted remotely up to 24 feet away from the operator, provided it is to be wired with other external control devices that are designed to function as the primary door controls. Power supply is wired directly to the controller not the motor. Low voltage motor cable is supplied for easy wiring.

Value Added Standard Features

- **Automatic obstruction sensing system**
Inherent motor current sensing system monitors the entire door system for obstructions and unsafe operating conditions in both directions of travel. The system provides protections unavailable with traditional commercial operators and can automatically sense obstructions like locks, broken springs, unsafe service conditions, and other obstructions that cannot be detected by reversing edges and photo cells.
- **Safety stop and reverse**
Inherent motor current sensing system automatically incorporates and safety stop before reopening in soft start.
- **Auto-close timer**
Fully programmable auto-close timer automatically closes the door. (4 minutes) Requires the addition of approved photo cell.
- **Part open programming (Programmable mid stop)**
Programmable part open to stop door at predetermined height.
- **Prevent door operation interlock**
Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.
- **Max run time protection**
Inherent motor current sensing system provides automatic max runtime protection.

- **Emergency egress manual operation**
Emergency manual operation using a ground level over-ride lever disconnect. When lever is released, the door will operate manually by hand as if no operator is connected to the door. This unique system eliminates the need to electrically interlock the disconnect as the operator has no mechanical limits and physically disconnects from all drive systems when released. It also provides ground level adjustment of the motor drive belt.
- **Service due reminder**
May be activated to ensure regularly scheduled maintenance based on cycles of usage.
- **Versatile mounting configurations**
8825-3-HPC/D may be mounted in standard vertical, horizontal, inverted, inverted center mount inside the cable drum, or rear mount torsion configurations. Some applications may require the use of a longer Bowden cable for proper installation.

Options and Accessories

- **Fraba Optoeye UL 325 Compliant Monitored Entrapment Protection Device**
401002 photo eye is a Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.
- **Receivers and transmitters**
2, 4, and 6 button handheld and permanently mounted forklift transmitters are available for use with the model 840 receiver. The 840 receiver module can use either an internal or optional external antenna. Terminals are provided inside the controller to facilitate the use of a 24VDC external receiver from any radio control manufacturer.
- **Auto-lock**
8070 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.
- **Rear mount torsion kit**
ZA0102 Bowden cable. 900005 Large offset torque arm.
- **Battery back up**
8830 Battery Back up systems allows operation of the operator during power outages.
- **Adapter insert**
ZA0191 Adapter insert for converting operator to accept 1" dead axle shafts.

Available Plug-in Modules

- **Auxiliary input expansion module**
871 module allows for expansion of input functions beyond the available connections on the controls board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply.
- **Fire station module**
871 FS 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.
- **Dock interlock/Traffic light control w/adv. warning**
82DTLM and the 822 Modules provide a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. 822 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided on 82DTLM may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 interface expansion modules.
- **Closed interlock/Traffic light control w/adv. warning**
82TLM and the 821 Modules provide a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to interlock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. 821 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.
- **Loop detectors**
Both single, and twin loop detectors are available for either plug in or wall mount installation.

ZAP Controls

815-SL Series 3 Super Drive

Safety

- NEMA 4X compliance for the controller as a standard feature
- Compact size reduces potential for lifting injuries during installation
- Universal shaft mounting system reduces the potential for unsafe work practices during installation
- Fully adjustable automatic obstruction sensing system detects obstructions on any part of the door in the open or close direction while monitoring the entire door movement for unsafe operation or service conditions
- Inherent soft start-soft stop, safety stop-reverse eliminates the mechanical stress damage to the door when the door reverses
- Self determining limit system prevents thrown cables from debris, ice, and snow left in the door opening

Value

- Continuous duty rated low voltage motor
- Ultra-Quiet DC Motor, will not thermally overload
- No extra costs to have controller achieve NEMA 4/IP 66 rating.
- Built in Service Due reminder may be activated to ensure regular maintenance based on cycles of usage
- Fully programmable Timer-to-close
- Built in interlock terminals to prevent door operation
- Programmable mid-stop
- Motor maximum amperage draw 2.8 Amps reducing number circuits required for multiple door applications
- Automatic obstruction sensing system surpasses the capabilities of a sensing edge detecting obstructions on any part of the door, eliminating the cost of a safety edge and associated wiring
- Reduces the occurrence of catastrophic damage to the door

Simplicity

- Simple one person installation that eliminate steel build ups, front of hood mounts, welding, and specialty anchors
- Simplistic maintenance design concept
- PCB based system controller eliminates the cost of servicing electrical contactors, limit systems, and countless other parts
- When the operator emergency release lever is disengaged the door easily operates by hand
- Operates both 1" and 1-5/16" Dead Axle Rolling Sheet Doors
- Universal Left or Right hand mounting requiring 0" of side clearance
- Simple wiring configurations and accessory modules that eliminate external limit relays to achieve various interlock configurations

Reliability

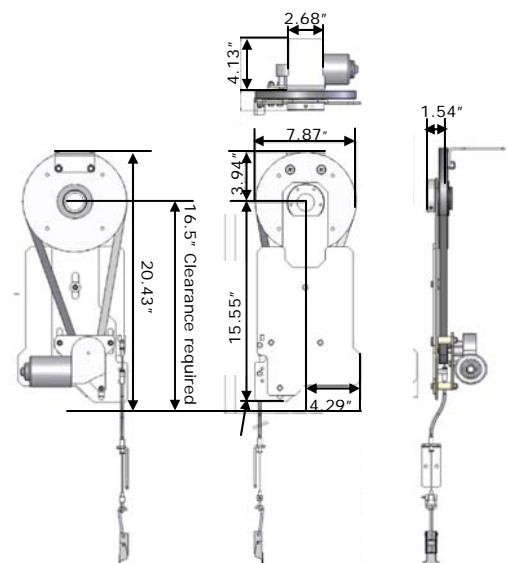
- Industrial components ensure years of service
- DC Motor and controller eliminates the problem of stuck motor switches, limit system failures, burned out starting capacitors and A/C motor malfunctions



ZAP Controls
815-SL Series 3 Super-Drive
 DC Commercial Dead Axle Rolling Sheet Door Operator

Technical information for the 815-SL Series 3

Controller Case/Push button	NEMA 4X/IP66
Controller Dimensions:	8.7"H X 6.5"W X 4.7"D
Single phase voltage:	115V US, 208-230V US, 230V EU
Amp draw:	2.8A
Power rating	650 Newtons Equivalent 1/2 HP
Control circuit voltage:	6VDC
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
Lubrication:	Permanent
Door axle type required:	Dead Axle
Fits Torsion shafts diameter:	1-5/16" Standard 1" with adapter PN 600249
Side clearance required:	0"
Replacement red motor PN	600805
Replacement belt PN/size	815-SL 600621 (AX38)



815 3 SL USA

ZAP Series 3
Simply Logical

Not For Use In Residential Applications

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 USA Contact 931-510-4432 sales@zap-america.com
 USA Tech Support 931-510-4432 via telephone or text
 Online www.zap-uk.com

ZAP Controls

815-SL Series 3 Super-Drive

Commercial DC Dead Axle Rolling Sheet Door Operator

Door Size W X H	
3'-12"W X 3'-5'-11"H	815-3-SL with Short run chip
3'-12"W X 6'-8"H	815-3-SL

Please read the instructions fully or attend training online before installation. Consult factory for door sizes beyond scope provided above. Mount to 1-5/16" dead axle sheet door. 1" axle using adapter. PN 600249. The minimum door height is 6'. Short run chip is available for lower heights.

Standard Features

- **Motor and controller**
Continuous duty rated DC Motor with controller, producing a powerful soft start/soft stop output of 650 Newtons of force to drive commercial rolling sheet doors while reducing mechanical impacts that cause premature wear of door components.
- **NEMA 4X rated controller case**
ZAP Controllers and push buttons are NEMA 4X compliant as a standard.
- **Drive reduction**
Worm drive gear box & V-belt reduction drive with floor level, adjustable belt tensioning /emergency release lever.
- **Wiring type**
C2 (factory default), B2 failsafe is standard with the addition of approved photo eye.
- **Radio control and external receiver terminals**
Terminal strip provided inside the controller to provide quick, convenient connections for adding external radio control receivers from any desired manufacturer.
- **Bearings and belts**
Drive systems use industrial grade bearings and automotive grade long life v-belts. Our simplistic service design concept allows simple service of components in a matter of moments.
- **Construction**
Heavy-duty 8-gauge electro-plate finish steel frame, industrial bearings, worm drive gear box, aluminum drive pulley, secured with key stock and setscrew for simple servicing.
- **Push button station**
Control unit acts as the standard 3-button station for open/close/stop functions. Controller may be mounted remotely up to 24 feet away from the operator, provided it is to be wired with other external control devices that are designed to function as the primary door controls. Power supply is wired directly to the controller not the motor. Low voltage motor cable is supplied for easy wiring.

Value Added Standard Features

- **Automatic obstruction sensing system**
Inherent motor current sensing system monitors the entire door system for obstructions and unsafe operating conditions in both directions of travel. The system provides protections unavailable with traditional commercial operators and can automatically sense obstructions like locks, broken springs, unsafe service conditions, and other obstructions that cannot be detected by reversing edges and photo cells.
- **Safety stop and reverse**
Inherent motor current sensing system automatically incorporates and safety stop before reopening in soft start.
- **Auto-close timer**
Fully programmable auto-close timer automatically closes the door. (4 minutes) Requires the addition of approved photo cell.
- **Part open programming (Programmable mid stop)**
Programmable part open to stop door at predetermined height.
- **Prevent door operation interlock**
Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.

- **Emergency egress manual operation**
Emergency manual operation using a ground level over-ride lever disconnect. When lever is released, the door will operate manually by hand as if no operator is connected to the door. This unique system eliminates the need to electrically interlock the disconnect as the operator has no mechanical limits and physically disconnects from all drive systems when released. It also provides ground level adjustment of the motor drive belt.
 - **Max run time protection**
Inherent motor current sensing system provides automatic max runtime protection.
 - **Service due reminder**
May be activated to ensure regularly scheduled maintenance based on cycles of usage.
 - **Versatile mounting configurations**
815 3 SL may be mounted universally in the left hand or right hand position, requiring no specialty brackets for mounting.
- #### Options and Accessories
- **Fraba Optoeye UL 325 Compliant Monitored Entrapment Protection Device**
401002 photo eye is a Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.
 - **Receivers and transmitters**
2, 4, and 6 button handheld and permanently mounted forklift transmitters are available for use with the model 840 receiver. The 840 receiver module can use either an internal or optional external antenna. Terminals are provided inside the controller to facilitate the use of a 24VDC external receiver from any radio control manufacturer.
 - **Battery back up**
8830 Battery Back up systems allows operation of the operator during power outages.
 - **Adapter insert**
600249 Adapter insert for converting operator to accept 1" dead axle shafts.

Available Plug-in Modules

- **Auxiliary input expansion module**
871 module allows for expansion of input functions beyond the available connections on the controls board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply.
- **Fire station module**
871 FS allows for 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.
- **Dock interlock/Traffic light control w/adv. warning**
82DTLM and the 822 Modules provide a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. 822 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided on 82DTLM may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 interface expansion modules.
- **Closed interlock/Traffic light control w/adv. warning**
82TLM and the 821 Modules provide a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to interlock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. 821 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.
- **Loop detectors**
Both single, and twin loop detectors are available for either plug in or wall mount installation

ZAP Controls

8815-SD Series 3 Super Drive

Safety

- NEMA 4X compliance for the controller as a standard feature
- Compact size reduces potential for lifting injuries during installation
- Universal torsion shaft mounting system reduces the potential for unsafe work practices during installation
- Fully adjustable automatic obstruction sensing system detects obstructions on any part of the door in the open or close direction while monitoring the entire door movement for unsafe operation or service conditions
- Inherent soft start-soft stop, safety stop-reverse eliminates the mechanical stress damage to the door when the door reverses
- Self determining limit system prevents thrown cables from debris, ice, and snow left in the door opening

Value

- Continuous duty rated low voltage motor
- Ultra-Quiet DC Motor, will not thermally overload
- No extra costs to have controller achieve NEMA 4/IP 66 rating.
- Built in Service Due reminder may be activated to ensure regular maintenance based on cycles of usage
- Fully programmable Timer-to-close
- Built in interlock terminals to prevent door operation
- Programmable mid-stop
- Motor maximum amperage draw 3.2 Amps reducing number circuits required for multiple door applications
- Automatic obstruction sensing system surpasses the capabilities of a sensing edge detecting obstructions on any part of the door, eliminating the cost of a safety edge and associated wiring
- Reduces the occurrence of catastrophic damage to the door

Simplicity

- Simple one person installation that eliminate steel build ups, front of hood mounts, welding, and specialty anchors
- Simplistic maintenance design concept
- PCB based system controller eliminates the cost of servicing electrical contactors, limit systems, and countless other parts
- When the operator emergency release lever is disengaged the door easily operates by hand
- Operates both 1" and 1-5/16" Dead Axle Rolling Sheet Doors
- Universal Left or Right hand mounting requiring only 1.5" of side clearance
- Simple wiring configurations and accessory modules that eliminate external limit relays to achieve various interlock configurations

Reliability

- Industrial components ensure years of service
- Long life phosphor bronze worm drive gear system
- DC Motor and controller eliminates the problem of stuck motor switches, limit system failures, burned out starting capacitors and A/C motor malfunctions

ZAP Series 3 Simply Logical

Not For Use In Residential Applications

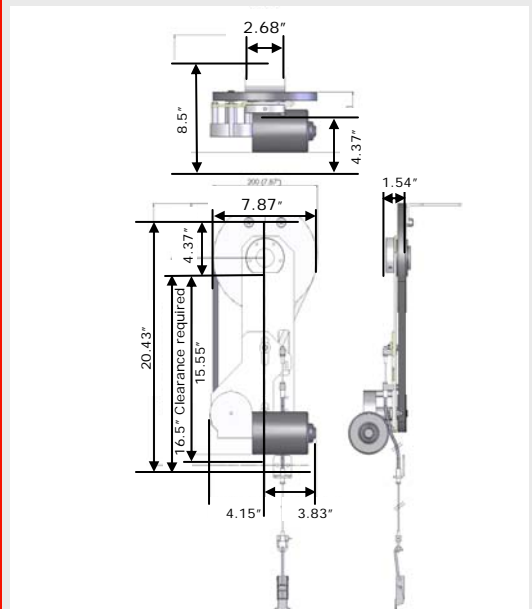
ZAP Controls
100 Waterloo Blvd. Anglesey Business Park, Littleworth Road, Cannock, Staffordshire, England
UK Office Number 011-44-154-387-9444 sales@zap-uk.com
USA Contact 931-510-4432 sales@zap-america.com
USA Tech Support 931-510-4432 via telephone or text
Online www.zap-uk.com



ZAP Controls
8815-SD Series 3 Super-Drive
DC Commercial Dead Axle Rolling Sheet Door Operator

Technical information for the 8815-SD Series 3

Controller Case/Push button	NEMA 4X/IP66
Controller Dimensions:	8.7"H X 10.6"W X 4.5"D
Single phase voltage:	115V US, 208-230V US, 230V EU
Three phase voltage:	460V US (Special order) 8825(X)-3-460
Amp draw:	3.2A
Power rating	1300 Newtons Equivalent to 1 HP
Control circuit voltage:	6VDC
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
Lubrication:	Permanent
Door axle type required:	Dead Axle
Fits Torsion shafts diameter:	1-5/16" Standard 1" with adapter PN 600249
Side clearance required:	0"
Replacement red motor PN	600816
Replacement belt PN/size	8815-SD 600621(AX38)



ZAP Controls

8815-SD Series 3 Super-Drive

Commercial DC Dead Axle Rolling Sheet Door Operator

Door Size W X H	
3'-16"W X 8'6"- 16"H	8815-3-SD
Please read the instructions fully or attend training online before installation. Consult factory for door sizes beyond scope provided above. Mount to 1-5/16" dead axle sheet door. 1" axle using adapter. PN 600249 The minimum door height is 8'6". A short run chip is available for lower heights.	

Standard Features

- **Motor and controller**
Continuous duty rated DC Motor with controller, producing a powerful soft start/soft stop output of 1300 Newtons of force to drive commercial rolling sheet doors while reducing mechanical impacts that cause premature wear of door components.
- **NEMA 4X rated controller case**
ZAP Controllers and push buttons are NEMA 4X compliant as a standard.
- **Drive reduction**
Worm drive gearbox & V-belt reduction drive with floor level, adjustable belt tensioning /emergency release lever.
- **Wiring type**
C2 (factory default), B2 failsafe is standard with the addition of approved photo eye.
- **Radio control and external receiver terminals**
Terminal strip provided inside the controller to provide quick, convenient connections for adding external radio control receivers from any desired manufacturer.
- **Bearings and belts**
Drive systems use industrial grade bearings and automotive grade long life v-belts. Our simplistic service design concept allows simple service of components in a matter of moments.
- **Construction**
Heavy-duty 8-gauge electro-plate finish steel frame, industrial bearings, phosphor bronze worm drive gears, aluminum drive pulley, secured with key stock and setscrew for simple servicing.
- **Push button station**
Control unit acts as the standard 3-button station for open/close/stop functions. Controller may mounted remotely up to 24 feet away from the operator, provided it is to be wired with other external control devices that are designed to function as the primary door controls. Power supply is wired directly to the controller not the motor. Low voltage motor cable is supplied for easy wiring.

Value Added Standard Features

- **Automatic obstruction sensing system**
Inherent motor current sensing system monitors the entire door system for obstructions and unsafe operating conditions in both directions of travel. The system provides protections unavailable with traditional commercial operators and can automatically sense obstructions like locks, broken springs, unsafe service conditions, and other obstructions that cannot be detected by reversing edges and photo cells.
- **Safety stop and reverse**
Inherent motor current sensing system automatically incorporates and safety stop before reopening in soft start.
- **Auto-close timer**
Fully programmable auto-close timer automatically closes the door. (4 minutes) Requires the addition of approved photo cell.
- **Part open programming (Programmable mid stop)**
Programmable part open to stop door at predetermined height.
- **Prevent door operation interlock**
Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.

- **Emergency egress manual operation**
Emergency manual operation using a ground level over-ride lever disconnect. When lever is released, the door will operate manually by hand as if no operator is connected to the door. This unique system eliminates the need to electrically interlock the disconnect as the operator has no mechanical limits and physically disconnects from all drive systems when released. It also provides ground level adjustment of the motor drive belt.
- **Max run time protection**
Inherent motor current sensing system provides automatic max runtime protection.
- **Service due reminder**
May be activated to ensure regularly scheduled maintenance based on cycles of usage.
- **Versatile mounting configurations**
8815 3 SD may be mounted universally in the left hand or right hand position, requiring no specialty brackets for mounting.

Options and Accessories

- **Fraba Optoeye UL 325 Compliant Monitored Entrapment Protection Device**
401002 photo eye is a Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.
- **Receivers and transmitters**
2, 4, and 6 button handheld and permanently mounted forklift transmitters are available for use with the model 840 receiver. The 840 receiver module can use either an internal or optional external antenna. Terminals are provided inside the controller to facilitate the use of a 24VDC external receiver from any radio control manufacturer.
- **Battery back up**
8830 Battery Back up systems allows operation of the operator during power outages.
- **Adapter insert**
600249 Adapter insert for converting operator to accept 1" dead axle shafts.

Available Plug-in Modules

- **Auxiliary input expansion module**
871 module allows for expansion of input functions beyond the available connections on the controls board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply.
- **Fire station module**
871 FS 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.
- **Dock interlock/Traffic light control w/adv. warning**
82DTLM and the 822 Modules provide a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. 822 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided on 82DTLM may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 interface expansion modules.
- **Closed interlock/Traffic light control w/adv. warning**
82TLM and the 821 Modules provide a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to interlock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. 821 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.
- **Loop detectors**
Both single, and twin loop detectors are available for either plug in or wall mount installation

ZAP Controls

825-SS Series 3 Super Drive

Safety

- NEMA 4X compliance for the controller as a standard feature
- Compact size reduces potential for lifting injuries during installation
- Universal shaft mounting system reduces the potential for unsafe work practices during installation
- Fully adjustable automatic obstruction sensing system detects obstructions on any part of the door in the open or close direction while monitoring the entire door movement for unsafe operation or service conditions
- Inherent soft start-soft stop, safety stop-reverse eliminates the mechanical stress damage to the door when the door reverses
- Self determining limit system prevents thrown cables from debris, ice, and snow left in the door opening

Value

- Continuous duty rated low voltage motor
- Ultra-Quiet DC Motor, will not thermally overload
- No extra costs to have controller achieve NEMA 4/IP 66 rating.
- Built in Service Due reminder may be activated to ensure regular maintenance based on cycles of usage
- Fully programmable Timer-to-close
- Built in interlock terminals to prevent door operation
- Programmable mid-stop
- Motor maximum amperage draw 2.8 Amps reducing number circuits required for multiple door applications
- Automatic obstruction sensing system surpasses the capabilities of a sensing edge detecting obstructions on any part of the door, eliminating the cost of a safety edge and associated wiring
- Reduces the occurrence of catastrophic damage to the door

Simplicity

- Simple one person installation that eliminate steel build ups, front of hood mounts, welding, and specialty anchors
- Simplistic maintenance design concept
- PCB based system controller eliminates the cost of servicing electrical contactors, limit systems, and countless other parts
- When the operator emergency release lever is disengaged the door easily operates by hand
- Operates 1" Live Axle Rolling Sheet Doors
- Universal Left or Right hand mounting requiring 4.5" of side clearance
- Simple wiring configurations and accessory modules that eliminate external limit relays to achieve various interlock configurations

Reliability

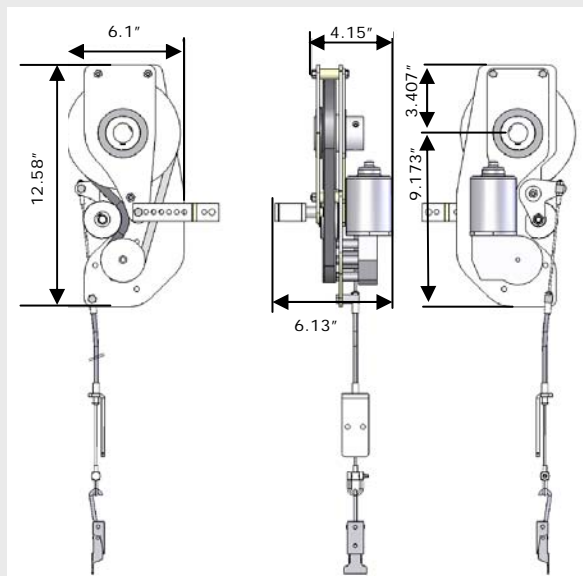
- Industrial components ensure years of service
- DC Motor and controller eliminates the problem of stuck motor switches, limit system failures, burned out starting capacitors and A/C motor malfunctions



ZAP Controls
825-SS Series 3 Super-Drive
 DC Commercial Live Axle Rolling Sheet Door Operator

Technical information for the 815-SS Series 3

Controller Case/Push button	NEMA 4X/IP66
Controller Dimensions:	8.7"H X 6.5"W X 4.7"D
Motor Cover Dimensions:	13.25"H X 6.5"W X 6.25"D
Single phase voltage:	115V US, 208-230V US, 230V EU
Amp draw:	2.8A
Power rating	650 Newtons Equivalent 1/2 HP
Control circuit voltage:	6VDC
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
Lubrication:	Permanent
Door axle type required:	Live Axle
Fits Torsion shafts diameter:	1"
Torsion shaft length required:	4.5" beyond outer edge of track
Side clearance required:	4.5" min for motor only
Replacement red motor PN	600805
Replacement belt PN/size	825-D 600615 (AX25)



815 3 SS USA

ZAP Series 3
Simply Logical

Not For Use In Residential Applications

ZAP Controls
 100 Waterloo Blvd. Anglesey Business Park, Littleworth Road, Cannock, Staffordshire, England
 UK Office Number 011-44-154-387-9444 sales@zap-uk.com
 USA Contact 931-510-4432 sales@zap-america.com
 USA Tech Support 931-510-4432 via telephone or text
 Online www.zap-uk.com

ZAP Controls

825-SS Series 3 Super-Drive

Commercial DC Live Axle Rolling Sheet Door Operator

Door Size W X H	
3'-12"W X 3'-5'-11"H	815-3-SL with Short run chip
3'-12"W X 6'-8"H	815-3-SL

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.

Standard Features

- **Motor and controller**
Continuous duty rated DC Motor with controller, producing a powerful soft start/soft stop output of 650 Newtons of force to drive commercial rolling sheet doors while reducing mechanical impacts that cause premature wear of door components.
- **NEMA 4X rated controller case**
ZAP Controllers and push buttons are NEMA 4X compliant as a standard.
- **Drive reduction**
Worm drive gearbox & V-belt reduction drive with floor level, adjustable belt tensioning /emergency release lever.
- **Wiring type**
C2 (factory default), B2 failsafe is standard with the addition of approved photo eye.
- **Radio control and external receiver terminals**
Terminal strip provided inside the controller to provide quick, convenient connections for adding external radio control receivers from any desired manufacturer.
- **Bearings and belts**
Drive systems use industrial grade bearings and automotive grade long life v-belts. Our simplistic service design concept allows simple service of components in a matter of moments.
- **Construction**
Heavy-duty 8-gauge electro-plate finish steel frame, industrial bearings, worm drive gear box, aluminum drive pulley, secured with key stock and setscrew for simple servicing.
- **Push button station**
Control unit acts as the standard 3-button station for open/close/stop functions. Controller may mounted remotely up to 24 feet away from the operator, provided it is to be wired with other external control devices that are designed to function as the primary door controls. Power supply is wired directly to the controller not the motor. Low voltage motor cable is supplied for easy wiring.

Value Added Standard Features

- **Automatic obstruction sensing system**
Inherent motor current sensing system monitors the entire door system for obstructions and unsafe operating conditions in both directions of travel. The system provides protections unavailable with traditional commercial operators and can automatically sense obstructions like locks, broken springs, unsafe service conditions, and other obstructions that cannot be detected by reversing edges and photo cells.
- **Safety stop and reverse**
Inherent motor current sensing system automatically incorporates and safety stop before reopening in soft start.
- **Auto-close timer**
Fully programmable auto-close timer automatically closes the door. (4 minutes) Requires the addition of approved photo cell.
- **Part open programming (Programmable mid stop)**
Programmable part open to stop door at predetermined height.
- **Prevent door operation interlock**
Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.

- **Emergency egress manual operation**
Emergency manual operation using a ground level over-ride lever disconnect. When lever is released, the door will operate manually by hand as if no operator is connected to the door. This unique system eliminates the need to electrically interlock the disconnect as the operator has no mechanical limits and physically disconnects from all drive systems when released. It also provides ground level adjustment of the motor drive belt.
- **Max run time protection**
Inherent motor current sensing system provides automatic max runtime protection.
- **Service due reminder**
May be activated to ensure regularly scheduled maintenance based on cycles of usage.
- **Versatile mounting configurations**
825 3 SS may be mounted universally in the left hand or right hand position, requiring no specialty brackets for mounting.

Options and Accessories

- **Fraba Optoeye UL 325 Compliant Monitored Entrapment Protection Device**
401002 photo eye is a Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.
- **Receivers and transmitters**
2, 4, and 6 button handheld and permanently mounted forklift transmitters are available for use with the model 840 receiver. The 840 receiver module can use either an internal or optional external antenna. Terminals are provided inside the controller to facilitate the use of a 24VDC external receiver from any radio control manufacturer.
- **Battery back up**
8830 Battery Back up systems allows operation of the operator during power outages.

Available Plug-in Modules

- **Auxiliary input expansion module**
871 module allows for expansion of input functions beyond the available connections on the controls board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply.
- **Fire station module**
871 FS 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.
- **Dock interlock/Traffic light control w/adv. warning**
82DTLM and the 822 Modules provide a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. 822 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided on 82DTLM may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 interface expansion modules.
- **Closed interlock/Traffic light control w/adv. warning**
82TLM and the 821 Modules provide a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to interlock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. 821 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.
- **Loop detectors**
Both single, and twin loop detectors are available for either plug in or wall mount installation

ZAP Controls

827 Series 3 Super Drive

Safety

- NEMA 4X compliance for the controller as a standard feature
- Compact size reduces potential for lifting injuries during installation
- Universal shaft mounting system reduces the potential for unsafe work practices during installation
- Fully adjustable automatic obstruction sensing system detects obstructions on any part of the door in the open or close direction while monitoring the entire door movement for unsafe operation or service conditions
- Inherent soft start-soft stop, safety stop-reverse eliminates the mechanical stress damage to the door when the door reverses
- Self determining limit system prevents thrown cables from debris, ice, and snow left in the door opening

Value

- Continuous duty rated low voltage motor
- Ultra-Quiet DC Motor, will not thermally overload
- No extra costs to have controller achieve NEMA 4/IP 66 rating.
- Built in Service Due reminder may be activated to ensure regular maintenance based on cycles of usage
- Fully programmable Timer-to-close
- Built in interlock terminals to prevent door operation
- Programmable mid-stop
- Motor maximum amperage draw 2.8 Amps reducing number circuits required for multiple door applications
- Automatic obstruction sensing system surpasses the capabilities of a sensing edge detecting obstructions on any part of the door, eliminating the cost of a safety edge and associated wiring
- Reduces the occurrence of catastrophic damage to the door

Simplicity

- Simple one person installation that eliminate steel build ups, front of hood mounts, welding, and specialty anchors
- Simplistic maintenance design concept
- PCB based system controller eliminates the cost of servicing electrical contactors, limit systems, and countless other parts
- When the operator emergency release lever is disengaged the door easily operates by hand
- Operates 1" Dead Axle Mini Warehouse Rolling Sheet Doors
- Right hand mounting requiring 0" of side clearance
- Simple wiring configurations and accessory modules that eliminate external limit relays to achieve various interlock configurations

Reliability

- Industrial components ensure years of service
- DC Motor and controller eliminates the problem of stuck motor switches, limit system failures, burned out starting capacitors and A/C motor malfunctions



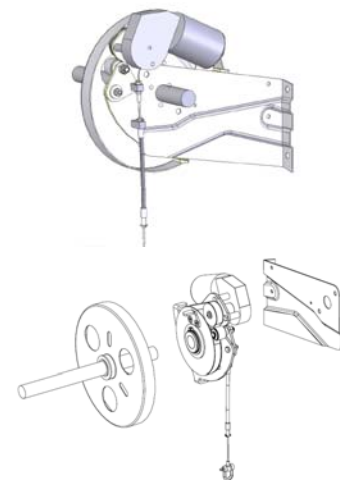
Patented



ZAP Controls
827 Series 3 Super-Drive
DC Commercial Compact Mini-Warehouse Sheet Door Operator

Technical information for the 827 Series 3

Controller Case/Push button	NEMA 4X/IP66
Controller Dimensions:	8.7"H X 6.5"W X 4.7"D
Single phase voltage:	115V US, 208-230V US, 230V EU
Amp draw:	2.8A
Power rating	650 Newtons Equivalent 1/2 HP
Control circuit voltage:	6VDC
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
Lubrication:	Permanent
Door axle type required:	Dead Axle
Fits Torsion shafts diameter:	1"
Side clearance required:	0"
Replacement red motor PN	600805
Replacement belt PN/size	827 600626(Z17.5)



827 3 USA

ZAP Series 3

Not For Use In Residential Applications

Simply Logical

ZAP Controls
100 Waterloo Blvd. Anglesey Business Park, Littleworth Road, Cannock, Staffordshire, England
UK Office Number 011-44-154-387-9444 sales@zap-uk.com
USA Contact 931-510-4432 sales@zap-america.com
USA Tech Support 931-510-4432 via telephone or text
Online www.zap-uk.com

ZAP Controls

827 Series 3 Super-Drive

Commercial DC Live Axle Rolling Sheet Door Operator

Door Size W X H	
3'-9"W X 3'-5'11"H	827-3 with Short run chip
3'-9"W X 6'-8"H	827-3

Please read the instructions fully or attend training online before installation. Consult factory for door sizes beyond scope provided above.

Mounts to 1" dead axle sheet door with mounting bracket depicted in drawing. The minimum door height is 6'. Short run chip is available for lower heights.

Standard Features

- **Motor and controller**
Continuous duty rated DC Motor with controller, producing a powerful soft start/soft stop output of 650 Newtons of force to drive commercial rolling sheet doors while reducing mechanical impacts that cause premature wear of door components.
- **NEMA 4X rated controller case**
ZAP Controllers and push buttons are NEMA 4X compliant as a standard.
- **Drive reduction**
Worm drive gearbox & V-belt reduction drive with floor level, adjustable belt tensioning /emergency release lever.
- **Wiring type**
C2 (factory default), B2 failsafe is standard with the addition of approved photo eye.
- **Radio control and external receiver terminals**
Terminal strip provided inside the controller to provide quick, convenient connections for adding external radio control receivers from any desired manufacturer.
- **Bearings and belts**
Drive systems use industrial grade bearings and automotive grade long life v-belts. Our simplistic service design concept allows simple service of components in a matter of moments.
- **Construction**
Heavy-duty 8-gauge electro-plate finish steel frame, industrial bearings, worm drive gear box, aluminum drive pulley, secured with key stock and setscrew for simple servicing.
- **Push button station**
Control unit acts as the standard 3-button station for open/close/stop functions. Controller may mounted remotely up to 24 feet away from the operator, provided it is to be wired with other external control devices that are designed to function as the primary door controls. Power supply is wired directly to the controller not the motor. Low voltage motor cable is supplied for easy wiring.

Value Added Standard Features

- **Automatic obstruction sensing system**
Inherent motor current sensing system monitors the entire door system for obstructions and unsafe operating conditions in both directions of travel. The system provides protections unavailable with traditional commercial operators and can automatically sense obstructions like locks, broken springs, unsafe service conditions, and other obstructions that cannot be detected by reversing edges and photo cells.
- **Safety stop and reverse**
Inherent motor current sensing system automatically incorporates and Safety stop before reopening in soft start.
- **Auto-close timer**
Fully programmable auto-close timer automatically closes the door. (4 minutes) Requires the addition of approved photo cell.
- **Part open programming (Programmable mid stop)**
Programmable part open to stop door at predetermined height.
- **Prevent door operation interlock**
Built in interlock to prevent door operation, used with truck restraint systems, shared track applications or pass doors.

- **Emergency egress manual operation**
Emergency manual operation using a ground level over-ride lever disconnect. When lever is released, the door will operate manually by hand as if no operator is connected to the door. This unique system eliminates the need to electrically interlock the disconnect as the operator has no mechanical limits and physically disconnects from all drive systems when released. It also provides ground level adjustment of the motor drive belt.
- **Max run time protection**
Inherent motor current sensing system provides automatic max runtime protection.
- **Service due reminder**
May be activated to ensure regularly scheduled maintenance based on cycles of usage.

Options and Accessories

- **Fraba Optoeye UL 325 Compliant Monitored Entrapment Protection Device**
401002 photo eye is a Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.
- **Receivers and transmitters**
2, 4, and 6 button handheld and permanently mounted forklift transmitters are available for use with the model 840 receiver. The 840 receiver module can use either an internal or optional external antenna. Terminals are provided inside the controller to facilitate the use of a 24VDC external receiver from any radio control manufacturer.
- **Battery back up**
8830 Battery Back up systems allows operation of the operator during power outages.

Available Plug-in Modules

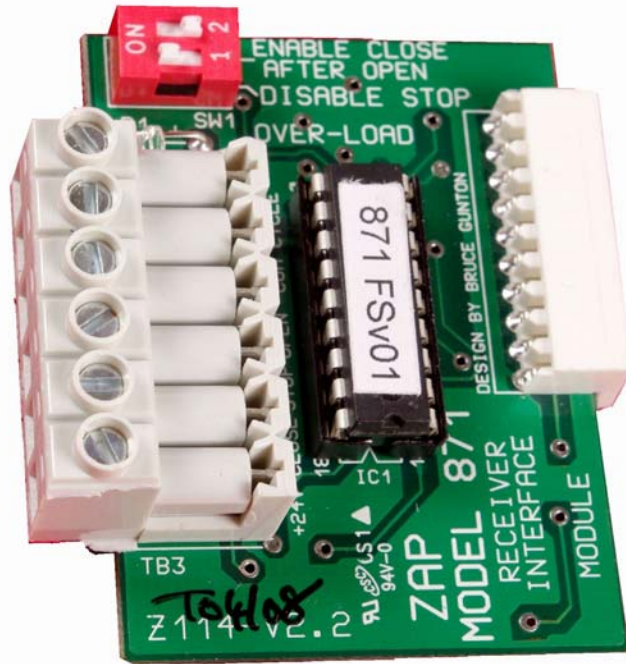
- **Auxiliary input expansion module**
871 module allows for expansion of input functions beyond the available connections on the controls board. It provides additional open, stop, close and cyclic operation input connections as well as an additional 24VDC supply.
- **Dock interlock/Traffic light control w/adv. warning**
82DTLM and the 822 Modules provide a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. 822 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided on 82DTLM may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 interface expansion modules.
- **Closed interlock/Traffic light control w/adv. warning**
82TLM and the 821 Modules provide a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to interlock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. 821 module provides advance warning of pending door closure with activation of the delay close programming. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.
- **Loop detectors**
Both single, and twin loop detectors are available for either plug in or wall mount installation

ZAP Controls

Accessory Specifications

ZAP Controls

Accessory Specifications



ZAP Series 3 Simply Logical

ZAP Controls
100 Waterloo Blvd. Anglesey Business Park, Littleworth Road, Cannock, Staffordshire, England
UK Office Number 011-44-154-387-9444 sales@zap-uk.com
USA Contact 931-510-4432 sales@zap-america.com
USA Tech Support 931-510-4432 via telephone or text
Online www.zap-uk.com

ZAP Controls

82 DTLM Dock Interlock/Dock Traffic Light Control

ZAP Part# 82 DTLM

Description:

82 DTLM provides a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. Terminals provided may be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 input modules.

Interlock terminals:

Interlock N/O Relay closes when door is in fully open position.

Driver communication light terminals:

Red Light-N/O Relay closes when door is in any position other than fully closed position.
Green Light-N/O Relay closes when door is in fully closed position.

Common
24V

Wiring requirements:

14-20 AWG

Power requirement:

None

Mounting type:

Plug in

Terminal plug:

2 Position Dual Direction slide in plug
4 Position Dual Direction slide in plug

Works with:

All Commercial ZAP Controllers
871 Interface expansion module
871-FS

Dimensions:

Height: 1-5/8"
Width: 3 -5/8"
Depth: 7/8"



Operating temp:

-13 deg F to + 149 deg F

ZAP Controls
82 DTLM Dock Interlock/Dock Traffic Light Control

82DTLM USA

ZAP Series 3

Simply Logical

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ZAP Controls

822 Dock Interlock/Advance door closure warning

ZAP Part# 822

Description:

822 provides a N/O relay that closes when the door operator is in the fully opened position. It may be used as a dock interlock or to interlock a door that shares the same track system. Provides terminals to operate red/green driver communication lighting where mechanical dock levelers are used. If programmed with built in close delay timer, module will facilitate the pre-announcement of pending door closure through the traffic light or an audible warning device. Expansion port included for the addition of 8070 Auto-Lock, 871 FS, or 871 input modules.

Interlock terminals:

Interlock N/O relay closes when door is in fully open position.

Driver communication light terminals:

Red Light-N/O Relay closes when door is in any position other than fully closed position.
Green Light-N/O Relay closes when door is in fully closed position.
Common
24V

Wiring requirements:

14-20 AWG

Power requirement:

None

Mounting type:

Plug in

Terminal plug:

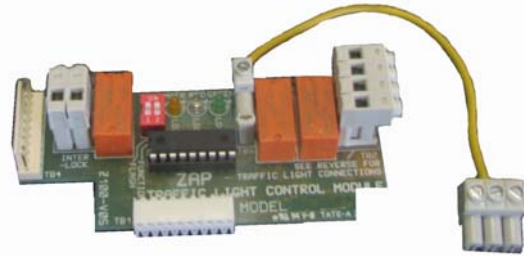
2 Position Dual Direction slide in plug
4 Position Dual Direction slide in plug

Works with:

All Commercial ZAP Controllers
871 Interface expansion module
871-FS

Dimensions:

Height: 1-5/8"
Width: 3 -5/8"
Depth: 7/8"



Operating temp:

-13 deg F to + 149 deg F

DIP switch functions:

If the FLASH dip switch is set to ON then the RED output will flash on and off while the door is moving, if the door is stopped before it is fully opened or closed and during the delay before closing.

If the FLASH dip switch is set to OFF then the RED output will remain on constantly in these situations.

If the FUNCTION dip switch is set to ON then the RED output will be off after the power is first applied or if the door is fully opened.

If the FUNCTION dip switch is OFF then the RED output will remain on constantly in these situations.

ZAP Controls
822 Dock Interlock/Advance door closure warning

822 USA

ZAP Series 3

Simply Logical

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ZAP Controls

82 TLM Through traffic light module/Door closed interlock

ZAP Part# 82 TLM

Description:

82TLM provides a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to inter lock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. Terminals provided may also be used to operate security, heating or other 5V to 240V devices up to 5 amps. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.

Trough traffic light terminals:

Red Light-N/O Relay closes when door is in any position other than fully open.
Green Light-N/O Relay closes when door is in fully open position.
Common
24V

Interlock terminals:

Interlock N/O relay closes when door is in fully closed position.

Wiring requirements:

14-20 AWG

Power requirement:

None

Mounting type:

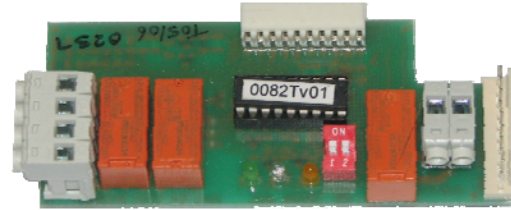
Plug in

Terminal pug:

2 Position Dual Direction slide in plug
4 Position Dual Direction slide in plug

Dimensions:

Height: 1-5/8"
Width: 3 -5/8"
Depth: 7/8"



Operating temp:

-13 deg F to + 149 deg F

Works with:

All Commercial ZAP Controllers
871 Interface module
871-FS

Settings 2 Way DIP Switch:

Switch 1-When "on" the red traffic light will switch off 3 minutes after the door has closed
Switch 2-When "on" the red traffic light will flash while the door is moving.

ZAP Series 3 Simply Logical

ZAP Controls

821 Through traffic light module/Advance door closure warning

ZAP Part# 821

Description:

821 provides a N/O relay that closes when the door operator is in the fully closed position. It may be used as a sally port interlock or to inter lock any device that requires the door to be in the closed position. Provides terminals to operate red/green through traffic lights where it is desired to know the door is fully opened before proceeding through. If programmed with built in close delay timer, module will facilitate the pre-announcement of pending door closure through the traffic light or an audible warning device. Expansion port is included for the addition of 8070 Auto-Lock, 871 FS, or 871 input expansion modules.

Trough traffic light terminals:

Red Light-N/O Relay closes when door is in any position other than fully open.
Green Light-N/O Relay closes when door is in fully open position.
Common
24V

Interlock terminals:

Interlock N/O relay closes when door is in fully closed position.

Wiring requirements:

14-20 AWG

Power requirement:

None

Mounting type:

Plug in

Terminal plug:

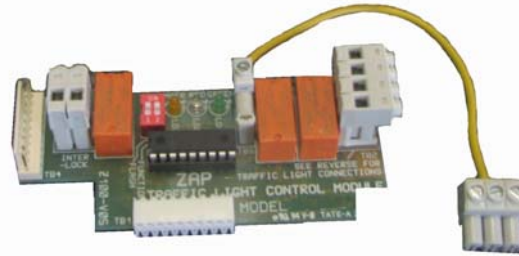
2 Position Dual Direction slide in plug
4 Position Dual Direction slide in plug

Dimensions:

Height: 1-5/8"
Width: 3 -5/8"
Depth: 7/8"

Operating temp:

-13 deg F to + 149 deg F



Works with:

All Commercial ZAP Controllers
871 Interface module
871-FS

DIP switch functions

If the FLASH dip switch is set to ON then the RED output will flash on and off while the door is moving, if the door is stopped before it is fully opened or closed and during the delay before closing.

If the FLASH dip switch is set to OFF then the RED output will remain on constantly in these situations.

If the FUNCTION dip switch is set to ON then the RED output will turn off three minutes after the power is first applied or the door has fully closed.

If the FUNCTION dip switch is OFF then the RED output will remain on constantly in these situations.

ZAP Controls
821 Through traffic light module/Advance door closure warning

821 USA

ZAP Series 3

Simply Logical

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ZAP Controls

850 Audible Beeper Module

ZAP Part# 850

Description:

The 850 Beeper Module enables audible announcement of programming functions, cycle activation, Service Due Reminder, cycle count inquiries, and Auto-Close defeat. The 8830 Commercial Operator Battery Back Up system is designed for use with all standard ZAP Commercial operators.

Mounting type:

Plug in

Wiring requirements:

None

Power requirement:

None

Dimensions:

Height: 1-5/8"

Width: 7/8"

Depth: 3/4"

Operating temp:

-13 deg F to + 149 deg F

Works with:

All standard commercial ZAP Controllers



ZAP Controls
850 Audible Beeper Module

850 USA

ZAP Series 3 Simply Logical

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ZAP Controls

401002 UL 325 2010 Approved Photo Eye

ZAP Part# 401002

Description:

Nema 4X UL 325 Compliant Monitored Entrapment Device designed for durability in all commercial applications.

Wiring requirements:

Provided 22 AWG/2 (50')

Power requirement:

+6VDC to 40VDC

Mounting type:

Wall mount

Terminal plug:

6 Position Dual Direction slide in plug

Works with:

All standard commercial ZAP Controllers

Working distance:

Up to 45'

Dimensions:

Diameter of sensor 3/4"
 Sensor housing: 2"x1.25"
 Mounting Bracket: 1-1.2"x3-5/8"

Adjustability:

6"-7.5"

Operating temp:

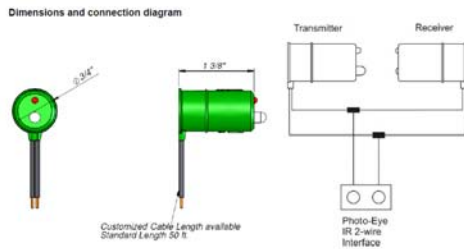
-13 deg F to +167 deg F.

Color indication of transmitter:

Grey Sealant

Color indication of receiver:

Black Sealant



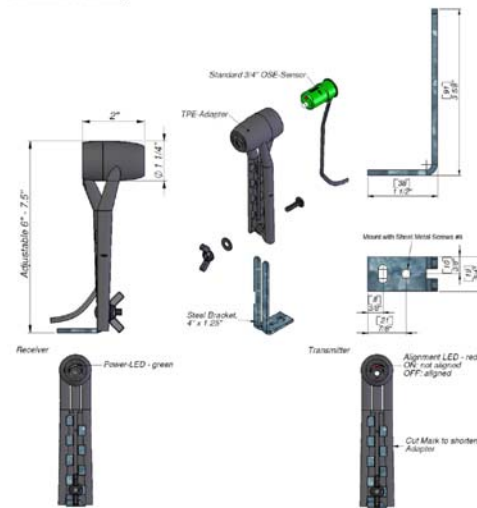
LED Status Description

Sensor Type	LED Color	Status	Description
Transmitter	Red	On	Sensors are not aligned
		Off	Sensors aligned properly
Receiver	Green	On	Sensors are Powered
		Off	Sensors without Power

Technical Data

General data	
Protection class	NEMA 6 (comparable to IP68)
Operation temperature	-13 °F to +167 °F
Material of the housing	Polypropylene (PP)
Diameter of the housing	3/4 in.
Length of the housing	1 3/8 in.
Signaling cable	PVC Insulation, 2 x 22 AWG
Length of signaling cable	Max. length from sensors to signal processing unit: ~650ft
Length of the cable	50ft, customized lengths available
Sealing compound	Polyurethane (PU)
Color of the sealing compound	Transmitter: grey
	Receiver: black
Voltage	+6 V DC to +40 V DC

Dimensions & Drawings



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ZAP Controls
401002 UL 325 2010 Approved Photo Eye

401002 USA

ZAP Controls

401001 Through Beam photo cell

ZAP Part# 401001

Description:

Provides a polarized infrared light through separate sending and receiving photo cells to sense traffic and or obstructions in the door opening. The unit has a 20 meter through beam operating range, universal polarity supply, and robust compact plastic housing. Visible red beams aids alignment. Adjustable sensitivity with position indicator. Isolated changeover relay contacts.

Wiring requirement:

14-20 AWG

Power requirement:

12-24VDC
120VAC-240VAC

Mounting type:

Wall Mount

Dimensions:

Height: 1-5/8"
Width: 7/8"
Depth: 3/4"

Operating temp:

-13 deg F to + 149 deg F

Works with:

871-FS
8855 Turbo drive Fire Station model to facilitate Auto-close Fire Station programming

Not For UL 325 2010 Use



ZAP Controls
401001 Through Beam photo cell

401001 USA

ZAP Series 3 Simply Logical

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ZAP Controls

840 Plug In Receiver/2416 Internal Antenna/2414 External Antenna

ZAP Part# 840

Description:

Zap plug-in radio receiver with signal light.

Wiring requirements:

None

Power requirement:

None

Mounting type:

Plug in

Programming:

Program button on main control panel.

Operating temp:

-13 deg F to + 149 deg F

Works with:

871-FS

8855 Turbo drive Fire Station model to facilitate Auto-close Fire Station programming

Operating frequency:

433.92 Mhz.

Number of transmitters accepted:

Up to 60 Zap Transmitters on commercial models 825 3.0/8825 3.0. Up to 10 ZAP transmitters on other models.

Antennas

Internal: Model 2416

Plug-in internal antenna for standard use. The 2416 is not recommended for use where there is a steel building or a lack of windows.

Mounting type:

Plug in

Terminal plug:

2 Position Dual Direction slide in plug

Operating temp:

-13 deg F to + 149 deg F

840



2416



2414



External: Model 2414

Wall mounting case with external adjustable direction antenna for use where signal shielding caused by a steel building or any other facility where a lack of windows is prevalent.

Wiring requirement:

Coaxial provided

Terminal plug:

2 Position Dual Direction slide in plug

Mounting type:

Wall mount

Cable length:

10'

Dimensions:

Height: 4 1/2"

Width: 2 7/8"

Depth: 2 3/8"

Operating temp:

-13 deg F to + 149 deg F

ZAP Controls
840 Plug In Receiver/2416 Internal Antenna/2414 External Antenna

840 2416 2414 USA

ZAP Series 3

Simply Logical

ZAP Controls
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ZAP Controls

4305-A, 4202, 4113 Handheld Radio Control Transmitters



4305-A
Channels: 6
Dimensions:
 Length: 5-7/16"
 Width: 2-1/4"
 Depth: 13/16"

Description:
 6 channel hand held transmitter. The transmitter features an extra heavy duty plastic housing with a rubber grip around the sides of the transmitter to take the abuse associated with forklift use. High visibility orange plastic housing.

Battery: 9 Volt Type: PP3

Operating temperature: -13 deg F to + 149 deg F

Operating frequency: 433.92 MHz



4202
Channels: 2
Dimensions:
 Length: 5-9/16"
 Width: 1-9/16"
 Depth: 7/16"
 With Visor Clip: 1-5/8"

Description:
 2 channel transmitter with visor clip. The transmitter also features a series of led indicators that flash back and forth after releasing the transmit button to signal activation. Silver plastic housing.

Battery:
 Button type: CR1632
 Qty required: 4 ea
 ZAP Part#: 400409
 Pkg of 25 ea

Operating temperature: -13 deg F to + 149 deg F

Operating frequency: 433.92 MHz



4113
Channels: 4
Dimensions:
 Length: 3"
 Width: 1-1/4"
 Depth: 1/2"

Description:
 4 channel key-fob transmitter. The transmitter features an led indicator to signal activation. Magenta plastic housing.

Battery: Button type: CR292
 Qty required: 4 ea
 ZAP Part#: 400402
 Pkg of 20 ea

Operating temp: -13 deg F to + 149 deg F

Operating frequency: 433.92 Mhz.

ZAP Controls
 4305-A, 4202, 4113 Handheld Radio Control Transmitters

4305A 4202 4113 USA

ZAP Series 3 Simply Logical

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ZAP Controls

Forklift Radio Control Transmitters

4500-50

Description:

Forklift mounted transmitter. The transmitter features a heavy duty die-cast aluminum housing in a high visibility orange color and are rated for indoor use. The transmitter is designed to permanently mount to the forklift, eliminating the constant loss associated with handheld transmitters. The units permanently wire to the forklift battery system and offer a voltage range of 12 to 72 volts dc. Models are available in 1, 2, 4, and 6 channels.

ZAP part numbers:	4501-50	1 button
	4502-50	2 button
	4504-50	4 button
	4506-50	6 button

Case dimensions:

Length:	4-1/2"
w/ antenna:	6-3/4"
Width:	2-1/2"
Depth:	2-3/16"

Works with: 840 Receiver

Battery: None

Frequency: 433.92 Mhz.

Operating temperature:

-13 deg F to + 149 deg F



4500-66

Description:

Forklift mounted transmitter. The transmitter features a heavy duty die-cast aluminum housing in a high visibility orange color and are rated for outdoor use. The transmitter is designed to permanently mount to the forklift, eliminating the constant loss associated with handheld transmitters. The units permanently wire to the forklift battery system and offer a voltage range of 12 to 72 volts dc. Models are available in 1, 2, 4, and 6 channels.

ZAP part numbers:	4501-66	1 button
	4502-66	2 button
	4504-66	4 button
	4506-66	6 button

Case Dimensions:

Length:	4-1/2"
w/ antenna:	6-3/4"
Width:	2-1/2"
Depth:	2-3/16"

Works with: 840 Receiver

Battery: None

Frequency: 433.92 Mhz.

Operating temperature:

-13 deg F to + 149 deg F



4500-50 4500-66 USA

ZAP Series 3 Simply Logical

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ZAP Controls

Loop Detectors 1102/1100-CC/1104-CC-120/240

1102

Description:

The 1102 is a plug in single magnetic loop detector used for indicating the presence or passage of vehicles. A system consists of an inductive loop (not provided) and the 1102 Loop detector.



1102

Wiring requirements: 14-20 AWG

Power requirement: None
Mounting type: Plug in

Dimensions: 1102

Height: 3.5"

Width: 3.5"

Depth: 1"

Works with:

All commercial ZAP Controllers

Operating temperature:

-13 deg F to + 149 deg F

1100-CC

The 1100-CC is a wall mount single magnetic loop detector used for indicating the presence or passage of vehicles. A system consists of an inductive loop (not provided) and the 1100 Loop detector.



1100-CC/1104-CC-120/240

Wiring requirements: 14-20 AWG

Power requirement:

1100-CC 24VDC

1104-CC-120 120VAC

1104-CC-240 240VAC

Case dimensions:

Height: 6.693"

Width: 5.512"

Depth: 5.315"

Mounting type:

Wall mount, Loop detector mounts on din rail.

Works with:

All commercial ZAP Controllers

1104-CC-120

1104-CC-240

The 1104-CC is a wall mount twin magnetic loop detector used for indicating the presence or passage of vehicles. A system consists of an inductive loop (not provided) and the 1104 loop detector.



Operating temperature:

-13 deg F to + 149 deg F

ZAP Controls
Loop Detectors 1102/1100-CC/1104-CC-120/240

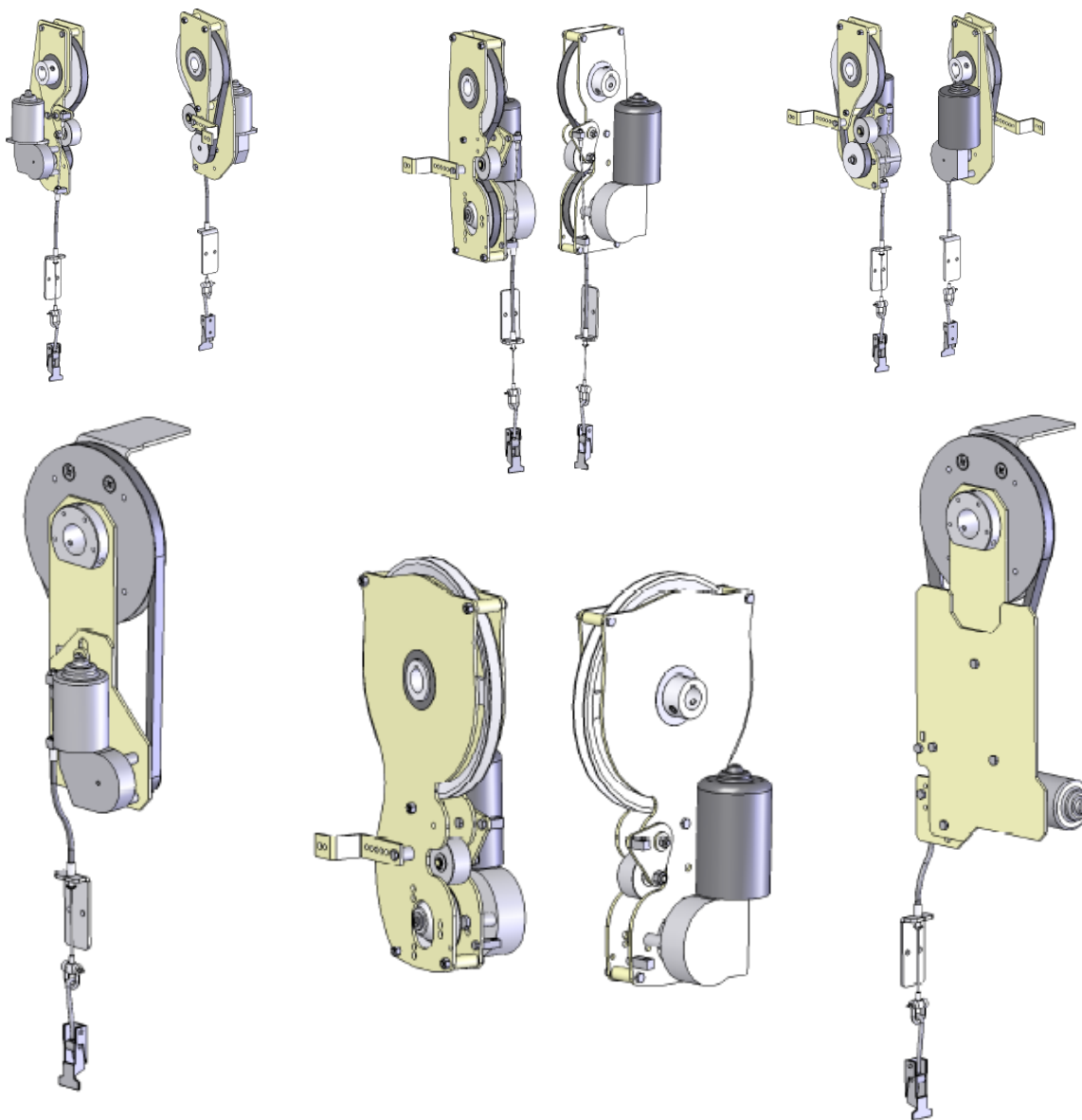
1100 1102 1104 USA

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ZAP Controls

Parts Catalog



ZAP Series 3 Simply Logical

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ZAP Controls

ZAP Motor, Pulley, Belt Replacement/Configuration

ZAP Controls
ZAP Motor, Pulley, Belt Replacement/Configuration

Model	Replacement Motor	Replacement Belt	Motor Pulley	Driven Pulley
805B	600805	600600(AX20)	600220(50MM)	ZA0048(4")
805C	600805	600601(AX21)	600219(46MM)	ZA0049(5")
805D	600805	600602(AX23)	600219(46MM)	ZA0050(6")
8805B	600810* See special notation	600618(AX22.5)	600222(70MM)	ZA0048(4")
8805C	600810* See special notation	600606(AX24)	600222(70MM)	ZA0049(5")
8805D	600810* See special notation	600611(AX26)	600222(70MM)	ZA0050(6")
815RLB	600805	600601(AX21)	600220(50MM)	600230(4")
815RLC	600805	600600(AX20)	600219(46MM)	600230(4")
815RGB	600805	600601(AX21)	600220(50MM)	ZA0048(4")
815RGC	600805	600600(AX20)	600219(46MM)	ZA0048(4")
815B	600805	600600(AX20)	600220(50MM)	ZA0048(4")
815C	600805	600601(AX21)	600219(46MM)	ZA0049(5")
815D	600805	600602(AX23)	600219(46MM)	ZA0050(6")
816B	600805	600601(AX21)	600220(50MM)	ZA0084(4")
816C	600805	600602(AX23)	600219(46MM)	ZA0085(5")
816D	600805	600615(AX25)	600219(46MM)	ZA0086(6")
8815B	600810* See special notation	600618(AX22.5)	600222(70MM)	ZA0048(4")
8815C	600810* See special notation	600606(AX24)	600222(70MM)	ZA0049(5")
8815D	600810* See special notation	600611(AX26)	600222(70MM)	ZA0050(6")
8816B	600810* See special notation	600615(AX25)	600222(70MM)	ZA0084(4")
8816C	600810* See special notation	600614(AX27)	600222(70MM)	ZA0085(5")
8816D	600810* See special notation	600617(AX29)	600222(70MM)	ZA0086(6")
825BII/3.0	600805	600612(AX22)	600220(50MM)	ZA0048(4")
825CII/3.0	600805	600602(AX23)	600219(46MM)	ZA0049(5")
825DII/3.0	600805	600615(AX25)	600219(46MM)	ZA0050(6")
8825B	600810* See special notation	600602(AX23)	600222(70MM)	ZA0048(4")
8825C	600810* See special notation	600615(AX25)	600222(70MM)	ZA0049(5")
8825D	600810* See special notation	600614(AX27)	600222(70MM)	ZA0050(6")
8826B	600810** See special notation	600624(AX25.5)	600222(70MM)	ZA0084(4")
8826C	600810** See special notation	600614(AX27)	600222(70MM)	ZA0085(5")
8826D	600810* See special notation	600617(AX29)	600222(70MM)	ZA0086(6")
8825 HP B	600813*** See special notation	600617(AX29)	600229(76MM)	ZA0050(6")
8825 HP C	600813*** See special notation	600621(AX38)	600229(76MM)	ZA0144(8")
8825 HP D	600813*** See special notation	600609(AX41)	600229(76MM)	ZA0145(10")
Special Notations				
*Part no longer available- Replace motor head assembly with 8825-3.0-HW(X) (B/C/D)				
**Part no longer available- Replace motor head assembly with 8826-3.0-HW(X) (B/C/D)				

Model	Replacement Motor	Replacement Belt	Motor Pulley	Driven Pulley
8825B3.0	600816(REDA MOTOR)	600624(AX25.5)	600222(70MM)	ZA0048(4")
8825C3.0	600816(REDA MOTOR)	600614(AX27)	600222(70MM)	ZA0049(5")
8825D3.0	600816(REDA MOTOR)	600617(AX29)	600222(70MM)	ZA0050(6")
8826B3.0	600816(REDA MOTOR)	600611(AX26)	600222(70MM)	ZA0084(4")
8826C3.0	600816(REDA MOTOR)	600614(AX27)	600222(70MM)	ZA0085(5")
8826D3.0	600816(REDA MOTOR)	600603(AX30)	600222(70MM)	ZA0086(6")
8825HPB3.0	600814(REDA MOTOR)	600617(AX29)	600227	ZA0050(6")
8825HPC3.0	600814(REDA MOTOR)	600621(AX38)	600227	ZA0144(8")
8825HPD3.0	600814(REDA MOTOR)	600609(AX41)	600229(76MM)	ZA0145(10")
Turbo-Drive	Replacement Motor	Replacement Belt	Motor Pulley	Driven Pulley
8855A3.0	600812(REDA MOTOR)	600614(AX27)	600227(114MM)	ZA0047(3")
8855B3.0	600812(REDA MOTOR)	600617(AX29)	600227(114MM)	ZA0048(4")
8855C3.0	800812(REDA MOTOR)	600603(AX30)	600227(114MM)	ZA0049(5")
8855D3.0	800812(REDA MOTOR)	600607(AX31.5)	600227(114MM)	ZA0050(6")
Sheet Door	Replacement Motor	Replacement Belt	Motor Pulley	Driven Pulley
815SDII/3.0	600805	600620(AX35)	600220(50MM)	600231(8")
815SLII/3.0	600805	600621(AX38)	600220(50MM)	600231(8")
8815SDII***	600810	600621(AX38)	600222(70MM)	699231(8")
8815SD 3.0	600816(REDA MOTOR)	600621(AX38)	600222(70MM)	699231(8")
815SSII/3.0	600805	600602(AX23)	600219(46MM)	ZA0050(6")
825SSII/3.0	600805	600615(AX25)	600219(46MM)	ZA0050(6")
827II/3.0	600805	600626(217.5)	600245	600242
Notes:				
***Part no longer available- Replacement motor bolts in place of existing unit				

PULLEY/BELT/MOTOR REFERENCE USA

ZAP Series 3 Simply Logical

ZAP Controls
100 Waterloo Blvd. Anglesey Business Park, Littleworth Road, Cannock, Staffordshire, England
UK Office Number 011-44-154-387-9444 sales@zap-uk.com
USA Contact 931-510-4432 sales@zap-america.com
USA Tech Support 931-510-4432 via telephone or text
Online www.zap-uk.com

ZAP Controls

Controller and Accessory Replacement Parts

ZAP Controls
Controller and Accessory Replacement Parts

Controllers		Accessory Replacement Parts	
800-3-PB	800 Series 3 Complete replacement controller USA. UL325 compliant. Default constant pressure close. 115V	871	Interface Expansion Module
8800-3-PB	8800 Series 3 Complete replacement controller USA. UL325 compliant. Default constant pressure close. 115V	871FS	Fire Station Module
8800-3-PB-480	8800 Series 3 Complete replacement controller USA. UL325 compliant. Default constant pressure close. 480V	872	Adapter Module
8800-3-HP-PB	8800HP Series 3 Complete Replacement Controller USA UL325 compliant. Default constant pressure close. 115V	82DTLM	Dock Interlock/Driver Communication Light Control Module
8800-3-HP-PB-480	8800HP 3.0 Complete Replacement Controller USA. UL325 compliant. Default constant pressure close.480V	82TLM	Closed Door Interlock/Through Traffic Light Control Module
Controller Parts		821	Through Traffic Light Module w/advance closure warning
Pending	Replacement 800-3 Controller Case	822	Driver Com Light Control Module w/advance closure warning
Pending	Replacement 8800-3 Controller Case	850	Beeper Module
Pending	Replacement 8800-3-HP Controller Case	840	Receiver
201833	Replacement Weather Proof Open or Close Button	2416	Internal Antenna
201834	Replacement Weather Proof Stop Button	2414	External Antenna
ZA0143	Cable Gland Kit	4113	4 channel Key Chain Transmitter
ZA0142	8m Replacement Motor Cable	400402	CR292 Battery 20Pk
300008	Replacement Power Plug (Green)	4202	2 Channel Transmitter with Visor clip
300017	Replacement terminal plugs (Strip of 20)	400409	CR1632 Battery 25 pk
300007	Replacement transformer plug	4305A	6 Channel Handheld transmitter
ZA0171	Fuse. 5 x 20mm. 1 Amp. (10 PK)	4501-50	1 Channel indoor forklift transmitter
ZA0172	Fuse. 5 x 20mm. 2 Amp. (10 PK)	4502-50	2 Channel indoor forklift transmitter
ZA0173	Fuse. 5 x 20mm. 3 Amp. (10 PK)	4504-50	4 Channel indoor forklift transmitter
ZA0174	Fuse. 5 x 20mm. 4 Amp. (10 PK)	4506-50	6 Channel indoor forklift transmitter
ZA0175	Fuse. 5 x 20mm. 5 Amp. (10 PK)	4501-66	1 Channel outdoor forklift transmitter
ZA0176	Fuse. 5 x 20mm. 6.3 Amp. (10 PK)	4502-66	2 Channel outdoor forklift transmitter
400001	Replacement Fuse Cover	4504-66	4 Channel outdoor forklift transmitter
Pending	Microprocessor 800 3.0	4506-66	6 Channel outdoor forklift transmitter
Pending	Short Run Microprocessor 800 3.0	1102	Replacement Single Magnetic Loop Detector
Pending	Microprocessor 8800 3.0	1100	Replacement single magnetic loop detector for 1100-CC
Pending	Short Run Microprocessor 8000 3.0	1104-120	Replacement Twin Magnetic Loop Detector for 1104-120-CC
Pending	Microprocessor 8800HP 3.0	1104-240	Replacement Twin Magnetic Loop Detector for 1104-240-CC
ZA0180	Microprocessor removal tool	503025	Replacement Loop detector case w/clear cover (1100,1104)
		Notes:	

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PARTS USA