



3900

Light-Duty Commercial Jackshaft Operator for Sectional Doors

Model 3900 is a light-duty jackshaft operator for light-duty commercial sectional applications only. It features a compact design ideal for limited height, cathedral, or obstructed ceiling installations. It may be used on standard and high-lift (maximum 7 ft. high-lift) sectional doors measuring up to 14 ft. high and up to 18 ft. wide, but not exceeding 180 sq. ft. or 650 lbs.

STANDARD FEATURES

Motor: Heavy-duty 24VDC motor provides ultra-quiet operation, along with variable speed smooth start and stop.

Compact Design: Ideal for limited height, cathedral, or obstructed ceiling installations; mounts on the left or right side of door and attaches to the torsion bar.

Push Button Station: 1-button station for OPEN & CLOSE functions with type B2 control wiring is standard for all operators. Controls with 1, 2 and 3 buttons are available.

The Protector System® Safety Sensors: A "non-contact" photo safety sensor designed to sense an obstruction and signal the door operator to reverse to open.

Warranty: Lifetime motor warranty.

OPTIONAL ACCESSORIES

Power Door Lock: Prevents the door from being manually forced open once fully closed.

EverCharge® Standby Power System: Operates the door operator for up to 20 full cycles within a 24 hour period.

Alternate Mounting Kit: Allows operator to be mounted below the torsion bar.

Remote Work Light: Adds 200 watts of light with adjustable light time delay; unlimited number of lights can be added.

Keyless Entry: Allows door to open or close by using a code programmed directly into the unit.



LGJ

Light-Duty Gear-Reduced Jackshaft Operator for Rolling Grilles and Shutters

Model LGJ is a light-duty gear-reduced jackshaft operator for rolling grilles and shutters. It features an internal door lock sensing circuit, a compact design and a floor level disconnect.

STANDARD FEATURES

Motor: Powerful 1/4 HP, 115V single phase motor with instant reverse and internal automatic reset thermal overload. Removable without affecting limit switch settings.

Wiring Type: The Model LGJ is easily wired for C2 or B2 wiring. The operator is pre-wired to accept a sensing device, photoelectric control, radio controls and most types of access control equipment.

Operator/Motor Control: Solid State Circuit (G2) with Door Lock Sensing Circuit (NEMA 1 enclosure).

Control Circuit: 24V NEC Class 2.

Floor Level Disconnect: Floor level disconnect provides emergency manual operation.

Drive Reduction: Heavy-duty wormgear-in-oil-bath speed reducer.

Push Button Station: 3-button station for OPEN/CLOSE/STOP functions is standard for all operators. Controls with one, two and three buttons are available.

Construction: NEMA 1 Type electrical box with durable baked-on powder coat finish. Easily converted for right or left mounting.

Door Lock Sensing Circuit: The Model LGJ includes a speed sensor in the electrical enclosure and a sensing circuit which sends a signal to stop the motor if the door jams, such as would be caused by failure to release the lockbar of a rolling grille before starting the operator. In addition to stopping the motor, if the door or grille is in fully closed position, it will drive the motor in the opposite direction for approximately 1 inch of door travel. This releases the pressure on the lockbar thus allowing the lock to be easily opened.

Warranty: 2-year warranty.

CONTROL ACCESSORIES AND OPTIONS

Sensing Edge: (recommended) Designed to sense an obstruction and signal door operator to stop or reverse as desired. Either an electric or pneumatic sensing device can be added to bottom edge of door.

Radio Control: Universal transmitters and receivers are available to signal the operator to open and/or close door.

Emergency Egress Device: Attractive faceplate mounts flush on wall and contains handle to disconnect operator from a grille, thereby allowing the grille to be opened manually or by spring tension.

Rolling Door Interlock Switch: Interlock switch disables the operator control circuit when a manual door lock is engaged preventing damage to the door and operator.

CPS® Commercial Protector System®: (recommended) A "non-contact" photo safety sensor designed to sense an obstruction and signal the door operator to reverse to open.

- Safety of a non-contact infrared reversing sensor
- Fast and easy-to-install
- Patented electrical interface monitors system status at all times
- LED indicators for quick alignment
- One size fits all (for doors up to 30 ft. wide)



MJ

Medium-Duty Jackshaft Operator

Model MJ is a Medium Duty Logic jackshaft operator. It features a compact design, an adjustable friction clutch, a standard solenoid brake and a high-starting torque motor.

MEDIUM-DUTY LOGIC TECHNOLOGY

Added Value

- UL325-2010 compliant Medium-Duty Logic programmable integrated circuit board
- Built-in 3-channel, 315MHz radio receiver accepts up to 20 Chamberlain® Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for OPEN/CLOSE/STOP operation
- Programmable C2 or B2 wiring options (B2 requires CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI)
- Integrated timer-to-close (TTC) allows programming from 5 to 60 seconds in 5-second increments. Allows for timed automatic door closure after the door reaches the full open position (Requires monitored safety devices, with CPS-RPEN4, CPS-U, CPS-UN4, or CPS-

EI)

- Integrated 90-second maximum run timer
- UL325-2010 Monitored Entrapment capability
- Monitored protection against transient overvoltage conditions
- 3-button control station included

STANDARD FEATURES

Motor: Powerful 1/2 HP, 115V single phase motor with instant reverse and internal automatic reset thermal overload. Removable without affecting limit switch settings.

Operator/Motor Control: Solid-state Medium-Duty circuit board.

Control Circuit: 24V NEC Class 2.

Floor Level Disconnect: Floor level disconnect provides emergency manual operation.

Brake: Heavy-duty solenoid actuated brake standard.

Wiring Type: All operators are factory preset to C2 wiring providing momentary contact to open and stop with constant contact to close. Momentary contact to close (B2 wiring) can be easily set, but requires the presence of either CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI safety devices. The operator is pre-wired to accept a sensing device, photoelectric control, radio controls and most types of access control equipment.

Drive Reduction: First stage heavy-duty 4L V-belt; second stage and third stages #48 chain.

Push Button Station: 3-button station for OPEN/CLOSE/STOP functions is standard for all operators. Controls with 1, 2 and 3 buttons are available.

Construction: NEMA 1 Type electrical box, heavy-duty 11-gauge steel frame with durable baked-on powder coat finish, all reduction sprockets drilled and pinned to shafts.

Friction Clutch: Adjustable friction clutch helps protect against major damage to door and operator should the door meet an obstruction.

Radio Receiver: 315MHz radio receiver is integral to the Medium-Duty logic board. Accepts up to 20 Security+® remote controls and unlimited DIP switch remote controls.

Warranty: 2-year warranty.

CONTROL ACCESSORIES AND OPTIONS

Primary Monitored Entrapment Protection: The presence of primary entrapment protection is required for all modes and features beyond basic

constant-pressure-to-close performance. Primary entrapment protection devices are monitored continuously to insure safe operation of the door and limit door operator functionality should an obstruction be detected or in the event of device failure. LiftMaster Monitored Entrapment Protection devices, CPS-RPEN4, CPS-U, CPS-UN4 and CPS-EI, are designed to work in conjunction with LiftMaster commercial door operators to provide enhanced door safety and a broad range of modes and features to end users. Either monitored photo-sensor or monitored 4-wire sensing edge (in conjunction with the CPS-EI Edge Interface) protection may be selected, but one must be detected by the LiftMaster Logic 4.0 or Medium-Duty Logic circuit board in order to unlock full functionality.

Ancillary Entrapment Protection: (optional) LiftMaster Retro-Reflective Commercial Protector System® photo sensors, 2-wire non-monitored sensing edges and pneumatic sensing edges are considered secondary entrapment protection and may be used to supplement primary entrapment protection or basic constant-pressure-to-close.

Radio Control: Universal transmitters and receivers are available to signal the operator to open and/or close door.

Emergency Egress Device: Attractive faceplate mounts flush on wall and contains handle to disconnect operator from a grille, thereby allowing the grille to be opened manually or by spring tension.

Rolling Door Interlock Switch: Interlock switch disables the operator control circuit when a manual door lock is engaged preventing damage to the door and operator.



DJ

Industrial-Duty Jackshaft Operator with Internal Door Lock Sensor

Model DJ is an industrial-duty jackshaft operator with an internal door lock sensor. It features a removable hinged electrical box cover, a continuous-duty high-starting torque motor, industrial ball bearings on the output shaft and a universal-mount frame design.

LOGIC 4.0 TECHNOLOGY (L4)

Added Value

- Built-in 3-channel, 315MHz radio receiver accepts up to 23 Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for OPEN/CLOSE/STOP operation

- Maintenance Alert System™ establishes a routine maintenance schedule based on the number of cycles or calendar date. Includes self-diagnostic system that allows you to troubleshoot up to eight different error codes
- Timer-to-Close allows programming in 1-sec or 15-sec increments and permits timed automatic door closure after the door reaches the full open position; requires monitored photo sensors, either CPS-RPEN4, CPS-U or CPS-UN4, or a 4-wire edge, using the CPS-EI edge interface
- Thermal motor overload can be easily reset from the 3-button floor level control station

Reliability & Programming Simplicity

- Switchless motor eliminates stuck start switch and motor malfunctions on single-phase operators
- All high-voltage connections have been removed from the board for safety and ease of service
- Diagnostic LEDs speed installation and troubleshooting
- Motor direction jumper lets you change motor direction by simply moving a jumper

Available Plug-in Options for Logic 4.0 (L4)

Auxiliary Contact: Used to operate security, warning, heating or other 5V to 240V devices. Features both normally open and closed contacts that actuate in conjunction with limit switches.

TLS1CARD: Provides seven field-selectable modifications, including six door traffic control options. Combines with Logic 4.0's standard Timer-to-Close feature to offer timed, sequenced activation of warning lights, sounders, and other devices (sold separately) that can be operated via dry contact closure.

CPS3 or CPS3-N4 Option: Enables the addition of a second set of photo-eyes.

Mechanical Reversing Contactor Circuit (M): (115V, 208/230V, 460V, 575V, 24V NEC Class 2 Circuit with 40VA transformer) Industrial linear contactor provides significantly longer control runs than conventional contactors.

STANDARD FEATURES

Motor: Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/3 and 1/2; single- or three-phase. Removable without affecting limit switch settings.

Drive Reduction: First-stage heavy-duty 5L V-belt; second and third stages #48 chain; #50 drive chain.

Emergency Disconnect: Easy emergency manual operation using an electrically interlocked floor level disconnect.

Wiring Type: All operators are factory preset to C2 wiring providing momentary contact to open and stop, with constant contact to close; D1 and E2 wiring are also available. Momentary contact to close (B2 wiring), T, TS, and FSTS wiring can be activated with the use of CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI safety edge interface. The operator is pre-wired to accept a sensing device, photoelectric sensors, radio controls and most types of access control equipment.

External Radio Control Terminal: Quick, convenient connections for retrofitting or adding radio controls on logic or mechanical operators.

Bearings: Industrial ball bearings on a 1" output shaft; heavy-duty oil-filled iron bearings on reduction shafts.

Friction Clutch: Adjustable, helps protect against major damage to door and operator should the door meet an obstruction.

Construction: NEMA 1 type electrical box, heavy-duty 11-gauge steel frame with durable powdercoat finish, all reduction sprockets drilled and pinned to shafts.

Push Button Station: 2-button station for OPEN/CLOSE functions is standard with D or D1 wiring. 3-button station is standard with B2 or C2 wiring.

PosiLock® Mechanical Brake System: Self-locking mechanical reduction system that functions as a holding brake.

Warranty: 2-year warranty.

CONTROL ACCESSORIES

Primary Monitored Entrapment Protection: The presence of primary entrapment protection is required for all modes and features beyond basic constant-pressure-to-close performance. Primary entrapment protection devices are monitored continuously to insure safe operation of the door and limit door operator functionality should an obstruction be detected or in the event of device failure. LiftMaster Monitored Entrapment Protection devices, CPS-RPEN4, CPS-U, CPS-UN4 and CPS-EI, are designed to work in conjunction with LiftMaster commercial door operators to provide enhanced door safety and a broad range of modes and features to end users. Either monitored photo-sensor or monitored 4-wire sensing edge (in conjunction with the CPS-EI Edge Interface) protection may be selected, but one must be detected by the LiftMaster Logic 4.0 or Medium-Duty Logic circuit board in order to unlock full functionality.

Ancillary Entrapment Protection: (optional) LiftMaster Retro-Reflective Commercial Protector System® photo sensors, 2-wire non-monitored sensing edges and pneumatic sensing edges are considered secondary entrapment protection and may be used to supplement primary entrapment protection or basic constant-pressure-to-close.

2-Position Keylock: (flush mount) Ideal for use with the DJ operator. Provides open/close operation with spring to center (Model 02-109).

Emergency Egress Device: Faceplate mounts flush on wall and contains pull handle to disconnect operator from grille. Allows the door to be opened manually or by spring tension.



3950

Jackshaft Door Operator for Commercial Rolling Sheet Door Applications

Model 3950 is a jackshaft operator for commercial rolling sheet door applications – ideal for self-storage facilities. It features a compact design ideal for public, boat, and RV storage facilities. It may be used on commercial rolling sheet doors with live or dead shaft measuring up to 12 ft. high and up to 14 ft. wide, but not exceeding 650 lbs.

STANDARD FEATURES

Motor: Heavy-duty 24VDC motor provides ultra-quiet operation, along with variable speed smooth start and stop.

Compact Design: Wall-mount installation – mounts on left or right side of door using standard mounting brackets. An optional mounting bracket, 3950MB (see below), provides additional mounting flexibility either inside or outside the door opening.

Installation Flexibility: Comes standard with both live and dead shaft sprocketing.

Push Button Station: 1 APBS1 single push button station for OPEN & CLOSE functions with type B2 control wiring is standard for all operators. Controls with 1, 2 and 3 buttons are available.

The Protector System® Safety Sensors: A "non-contact" photo safety sensor designed to sense an obstruction and signal the door operator to reverse to open.

Warranty: 2-year warranty.

OPTIONAL ACCESSORIES

Chain Guard (with Mounting Clip): Provides added safety. Required

for applications where the 3950 operator is mounted less than 8 ft. from the floor.

Mounting Bracket / Dead Shaft Sprocket Kit for #41

Chain: Provides further installation flexibility for new or retrofit applications.

Power Door Lock: Prevents the door from being manually forced open once fully closed.

EverCharge® Standby Power System: Operates the door operator for up to 20 full cycles within a 24 hour period.

Remote Work Light: Adds 200 watts of light with adjustable light time delay; unlimited number of lights can be added.



MGJ

Medium-Duty Gear-Reduced Jackshaft Operator for Rolling Grilles and Shutters

Model MGJ is a Medium-Duty Logic gear-reduced jackshaft operator for rolling grilles and shutters. It features a compact design, a floor level disconnect, a high-starting torque motor and a heavy-duty wormgear reducer.

MEDIUM-DUTY LOGIC TECHNOLOGY

Added Value

- UL325-2010 compliant Medium-Duty Logic programmable integrated circuit board
- Built-in 3-channel, 315MHz radio receiver accepts up to 20 Chamberlain® Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for OPEN/CLOSE/STOP operation
- Programmable C2 or B2 wiring options (B2 requires CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI)
- Integrated Timer-to-Close (TTC) allows programming from 5 to 60 seconds in 5-second increments. Allows for timed automatic door closure after the door reaches the full open position (Requires monitored safety devices, with CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI)
- Integrated 90-second maximum run timer
- UL325-2010 Monitored Entrapment Capability
- Monitored protection against transient overvoltage conditions
- 3-button control station included

STANDARD FEATURES

Motor: Powerful 1/2 HP, single phase motor with instant reverse and internal automatic reset thermal overload. Removable without affecting limit switch settings.

Wiring Type: All operators are factory preset to C2 wiring providing momentary contact to open and stop with constant contact to close. Momentary contact to close (B2 wiring) can be easily set, but requires the presence of either CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI safety devices. The operator is pre-wired to accept a sensing device, photoelectric control, radio controls and most types of access control equipment.

Operator/Motor Control: Solid-state Medium-Duty circuit board.

Control Circuit: 24V NEC Class 2.

Floor Level Disconnect: Floor level disconnect provides emergency manual operation.

Drive Reduction: Heavy-duty wormgear-in-oil-bath speed reducer.

Push Button Station: 3-button station for OPEN/CLOSE/STOP functions is standard for all operators. Controls with 1, 2 and 3 buttons are available.

Construction: NEMA 1 type electrical box with baked-on powder coat finish. Easily field converted for right or left mounting.

Radio Receiver: 315MHz radio receiver is integral to the Medium-Duty logic board. Accepts up to 20 Security+® remote controls and unlimited DIP switch remote controls.

Warranty: 2-year warranty.

CONTROL ACCESSORIES AND OPTIONS

Primary Monitored Entrapment Protection: The presence of primary entrapment protection is required for all modes and features beyond basic constant-pressure-to-close performance. Primary entrapment protection devices are monitored continuously to insure safe operation of the door and limit door operator functionality should an obstruction be detected or in the event of device failure. LiftMaster Monitored Entrapment Protection devices, CPS-RPEN4, CPS-U, CPS-UN4 and CPS-EI, are designed to work in conjunction with LiftMaster commercial door operators to provide enhanced door safety and a broad range of modes and features to end users. Either monitored photo-sensor or monitored 4-wire sensing edge (in conjunction with the CPS-EI Edge Interface) protection may be selected, but one must be detected by the LiftMaster Logic 4.0 or Medium-Duty Logic circuit board in order to unlock full functionality.

Ancillary Entrapment Protection: (optional) LiftMaster Retro-Reflective Commercial Protector System® photo sensors, 2-wire non-

monitored sensing edges and pneumatic sensing edges are considered secondary entrapment protection and may be used to supplement primary entrapment protection or basic constant-pressure-to-close.

Radio Control: Universal transmitters and receivers are available to signal the operator to open and/or close.

Emergency Egress Device: Attractive faceplate mounts flush to the wall and contains handle to disconnect operator from a grille, thereby allowing the grille to be opened manually or by spring tension.

Rolling Door Interlock Switch: Interlock switch disables the operator control circuit when a manual door lock is engaged preventing damage to the door and operator.



J

Industrial Duty Jackshaft Operator

Model J is an industrial-duty jackshaft operator. It features a removable hinged electrical box cover, a continuous-duty high-starting torque motor, industrial ball bearings on the output shaft and a universal mount frame design.

LOGIC 4.0 TECHNOLOGY (L4)

Added Value

- Built-in 3-channel, 315MHz radio receiver accepts up to 23 Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for OPEN/CLOSE/STOP operation
- Maintenance Alert System™ establishes a routine maintenance schedule based on the number of cycles or calendar date. Includes self-diagnostic system that allows you to troubleshoot up to eight different error codes
- Timer-to-Close allows programming in 1-sec or 15-sec increments and permits timed automatic door closure after the door reaches the full open position; requires monitored photo sensors, either CPS-RPEN4, CPS-U or CPS-UN4, or a 4-wire edge, using the CPS-EI edge interface
- Thermal motor overload can be easily reset from the 3-button floor level control station

Reliability & Programming Simplicity

- Switchless motor eliminates stuck start switch and motor malfunctions on single-phase operators

- All high-voltage connections have been removed from the board for safety and ease of service
- Diagnostic LEDs speed installation and troubleshooting
- Motor direction jumper lets you change motor direction by simply moving a jumper

Available Plug-in Options for Logic 4.0 (L4)

Auxiliary Contact: Used to operate security, warning, heating or other 5V to 240V devices. Features both normally open and closed contacts that actuate in conjunction with limit switches.

TLS1CARD: Provides seven field-selectable modifications, including six door traffic control options. Combines with Logic 4.0's standard Timer-to-Close feature to offer timed, sequenced activation of warning lights, sounders, and other devices (sold separately) that can be operated via dry contact closure.

CPS3 or CPS3-N4 Option: Enables the addition of a second set of photo-eyes.

Mechanical Reversing Contactor Circuit (M): (115V, 208/230V, 460V, 575V, 24V NEC Class 2 Circuit with 40VA transformer) Industrial linear contactor provides significantly longer control runs than conventional contactors.

STANDARD FEATURES

Motor: Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/3, 1/2, 3/4 and 1 HP; single- or three-phase. Removable without affecting limit switch settings.

Drive Reduction: First-stage heavy-duty 5L V-belt; second and third stages #48 chain; #50 drive chain.

Emergency Disconnect: Easy emergency manual operation using an electrically interlocked floor level disconnect.

Wiring Type: All operators are factory preset to C2 wiring providing momentary contact to open and stop, with constant contact to close; D1 and E2 wiring are also available. Momentary contact to close (B2 wiring), T, TS, and FSTS wiring can be activated with the use of CPS-RPEN4, CPS-U, CPS-UN4, or CPS-EI safety edge interface. The operator is pre-wired to accept a sensing device, photoelectric sensors, radio controls and most types of access control equipment.

External Radio Control Terminal: Quick, convenient connections for retrofitting or adding radio controls on logic or mechanical operators.

Bearings: Industrial ball bearings on a 1" output shaft; heavy-duty oil-filled iron bearings on reduction shafts.

Friction Clutch: Adjustable, helps protect against major damage to door and operator should the door meet an obstruction.

Construction: NEMA 1 type electrical box, heavy-duty 11-gauge steel frame with durable powdercoat finish, all reduction sprockets drilled and pinned to shafts.

Push Button Station: 3-button station comes standard and has OPEN/CLOSE/STOP functionality.

PosiLock® Mechanical Brake System: Self-locking mechanical reduction system that functions as a holding brake.

Warranty: 2-year warranty.

CONTROL ACCESSORIES

Primary Monitored Entrapment Protection: The presence of primary entrapment protection is required for all modes and features beyond basic constant-pressure-to-close performance. Primary entrapment protection devices are monitored continuously to insure safe operation of the door and limit door operator functionality should an obstruction be detected or in the event of device failure. LiftMaster Monitored Entrapment Protection devices, CPS-RPEN4, CPS-U, CPS-UN4 and CPS-EI, are designed to work in conjunction with LiftMaster commercial door operators to provide enhanced door safety and a broad range of modes and features to end users. Either monitored photo-sensor or monitored 4-wire sensing edge (in conjunction with the CPS-EI Edge Interface) protection may be selected, but one must be detected by the LiftMaster Logic 4.0 or Medium-Duty Logic circuit board in order to unlock full functionality.

Ancillary Entrapment Protection: (optional) LiftMaster Retro-Reflective Commercial Protector System® photo sensors, 2-wire non-monitored sensing edges and pneumatic sensing edges are considered secondary entrapment protection and may be used to supplement primary entrapment protection or basic constant-pressure-to-close.

Emergency Egress Device: Faceplate mounts flush on wall and contains pull handle to disconnect operator from grille. Allows the door to be opened manually or by spring tension.