INDUSTRIAL-DUTY JACKSHAFT OPERATOR

Safest Installations. Smartest Innovations

UL325-2010 Compliant Logic 4.0 technology provides primary monitored entrapment protection; a required safety regulation. This insures that the appropriate safety devices, either a monitored photo sensor or monitored sensing edge, are functional in all operators formats.

The innovative design of Logic 4.0 also provides exceptional value, featuring a broad range of standard features, and all Logic 4.0 commercial door operators are engineered, manufactured and tested to provide reliable service and meet the requirements of the toughest commercial applications.

Standard Features

- For use on rolling doors and grilles
- Internal door lock sensor
- Removable hinged electrical box cover
- Continuous-duty high-starting torque motor
- Industrial ball bearings on output shaft
- Universal-mount frame design
- 115V, 208/230V, 460V, 575V, 24V NEC Class 2 Circuit with 40VA transformer

Includes the Logic 4.0 board and the exclusive Maintenance Alert System™

Provides Compliance, Value and Convenience

- UL325-2010 Monitored Entrapment Capability
  - Provides primary monitored entrapment protection through monitored photo sensors, either CPS-U or CPS-UN4, or a 4-wire monitored edge, using the CPS-EI interface
- UL-Listed and UL-Labeled to insure compliance to local codes and approval at final inspection
- Built-in 3-channel, 315MHz radio receiver
- Seven field-selectable operator wiring formats via on-board selector switch
- Integrated Timer-To-Close
  - Programmable in 1-second and 15-second increments; allows for timed automatic door closure after the door reaches the full open position
- Programmable mid-stop, which permits an automatic stop between full close and full open, and maximum run timer, that prevents motor overrun and damage to the door and/or operator
- Maintenance Alert System™
  - Establish a routine maintenance schedule based on number of door cycles and/or calendar date; includes a self-diagnostic system for easy troubleshooting

LiftMaster®

ELITE SERIES™
LOGIC 4.0

DJ
COMMERCIAL DOOR OPERATOR

MAXIMUM DOOR AREA (SQ. FT.)

ROLLING	24 GA. STEEL	22 GA. STEEL	_____	20 GA./18 GA. STEEL	16 GA. STEEL	_____
	ALUMINUM GRILLES	ALUMINUM DOORS	_____	STEEL GRILLES	_____	_____
SECTIONAL	_____	24 GA./22 GA. STEEL	20 GA. STEEL	_____	16 GA. STEEL	_____
	FIBERGLASS	ALUMINUM DOORS	WOOD DOORS	_____	_____	_____
	_____	_____	24 GA. STEEL INSULATED	_____	20 GA. STEEL INSULATED	16 GA. STEEL INSULATED
HP 1/3	310	285	260	210	175	125
HP 1/2	400	350	320	280	250	200

NOTE: On steel insulated doors, a 24-gauge back panel is assumed.
If a heavier back panel is supplied, use the next higher HP rating.
For doors 22ft. wide by 20ft. high and larger, call factory.
Recommended Duty Cycles: 25 per hour, 80-90 per day

Standard Features

● **Motor**
Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/3 and 1/2 HP; single- or three-phase. Capacitor start on single-phase. Motor removable without affecting limit switch settings.

● **Door Lock Sensor**
The adjustable door lock sensor can detect if the door lock is engaged and will stop the operator, eliminating jamming and damage to the door or operator. There is no longer any need for wiring guide-mounted interlocks.

● **Emergency Manual Operation**
Model DJ provides easy emergency manual operation using an electrically interlocked floor level disconnect. Works well with optional Emergency Egress Device.

● **Wiring Type**
All operators are factory preset to C2 wiring, providing momentary contact to open and stop, with constant contact to close. Monitored entrapment protection, using approved photo sensors or sensing edges is optional, although recommended, when using C2, D1 or E2. All other wiring types, B2, T, TS and FSTS, can be selected with the addition of an appropriate monitored entrapment protection device, either LiftMaster CPS-U / CPS-UN4 photo sensors or a monitored 4-wire sensing edge (via a CPS-EI Edge Interface Card). Logic 4.0 operators can only accept UL-approved LiftMaster CPS-U, CPS-UN4 or CPS-EI monitored entrapment protection devices.

● **Control Circuit**
5V DC NEC Class 2.

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

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

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

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

● **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.

● **Radio Receiver & External Radio Control Terminal**
315MHz radio receiver included as standard on Logic 4.0. Accepts up to 23 Security+® remote controls or unlimited DIP switch remotes. External terminals provide quick, convenient connections for retrofitting or adding an external radio receiver.

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

Value Added Standard Features

● **Timer-to-Close**
Automatically closes the door – programmable in 1-second or 15-second increments.

● **Maximum Run Timer**
Signals door to reverse or stop if closing time exceeds maximum by more than 10 seconds.

● **Mid-Stop**
Stops door at programmable mid-stop during open travel.

● **Delay-on-Reverse Circuit**
A 1.5 second delay-on-reverse circuit to prevent premature door and operator wear.
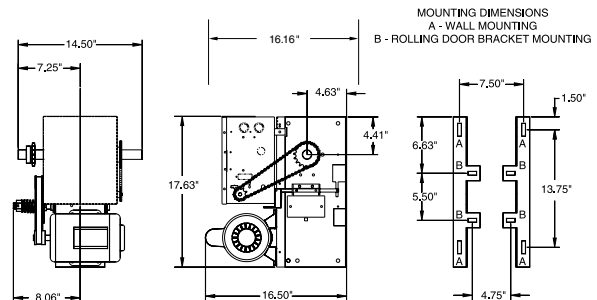
Control Accessories and Options

● **CPS® Commercial Protector System®**
LiftMaster photo sensors, CPS-U and CPS-UN4, are considered primary entrapment protection devices and are designed to sense an obstruction and instruct the operator to reverse a closing door to the full open position; LiftMaster photo sensors must be present in order to program any features or wiring types other than constant contact to close (C2, D1 and E2). In lieu of photo-sensors, the CPS-EI Edge Interface, which permits the attachment of a 4-wire monitored sensing edge to a Logic 4.0 operator, may be substituted as a primary entrapment protection device. CPS devices:
• Signal the operator continuously in compliance with regulatory agency requirements regarding primary monitored entrapment protection devices
• Provide LED indicators for quick and easy alignment
• Feature heavy gauge mounting brackets and a bright, yellow safety color
• Offer quick installation via pre-molded 1"conduit connections
• Provide a watertight NEMA4 design (CPS-UN4)

● **Emergency Egress Device**
Attractive 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. Flush handle or extended handle.

● **2-Position Keylock** *(flushmount)*
Provides open/close operation with spring to center (Model 02-109).

● **Sensing Edge**
If CPS-U / CPS-UN4 photo sensors are present, a non-monitored 2-wire electric edge or pneumatic (air hose) edge may be used as ancillary protection devices. For C2 mode only, installation of either a 2-wire electric or pneumatic edge is optional.

● **Brake**
Heavy-duty solenoid-actuated brake.

● **Transmitters**
1- and 3-button transmitters available. Can be programmed for open/close/stop functionality.

Available Plug-in Options for the Logic 4.0 Control Board (L4)

● **TLS1CARD**
The Timer Light Status Card (TLS1CARD) provides the capability to control auxiliary devices such as warning lights, bells, horns, horn/strobes, etc. through timed relay activation occurring at various door positions (open, mid-stop or closed). The TLS1CARD also provides an input for external limit switches on tall rolling doors.

● **AUXCARD**
Activates security, warning, heating or other 5V to 240V devices while door is in motion (either opening or closing).

● **CPS3 & CPS3-N4**
Provides the ability to add a second set of photo sensors for additional safety. CPS3 includes CPS3CARD and a set of CPS-U photo sensors. CPS3-N4 includes the CPS3CARD and a set of CPS-UN4 photo sensors. CPS3CARD may be purchased separately.

Technical Information

MOUNTING DIMENSIONS
A - WALL MOUNTING
B - ROLLING DOOR BRACKET MOUNTING

LiftMaster®
Commercial Door Operators
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