



Arc Flash Safety



## Product Data BL-30



Made in USA

The BL-30 actuator is designed to operate the TRIP/CLOSE lever on Square D Bolt-Loc switches.

The BL-30 actuator is temporarily installed over the TRIP/CLOSE lever on your Square D Bolt-Loc switch and held in place with strong neodymium magnets (no modification to your switch is required). A hand-held controller, connected by a control cable to the actuator, allows the operator to be positioned outside the Arc Flash Hazard Boundary. A motor and gearbox in the actuator rotates the TRIP/CLOSE lever to the position as commanded by the hand-held controller. A microcontroller monitors controller inputs, assures correct control switch positioning, and drives the motor through an intelligent H-bridge. The entire unit is battery powered (24VDC) which eliminates the need for external power.

### What do you get?

Included when purchasing the BL-30 is the actuator, hand-held controller, 30-foot cable, batteries, instruction manual, and carrying case.

### What if my TRIP/CLOSE lever is on the left of the charging handle instead of on the right as shown in the picture at the top of this datasheet?

The BL-30 will work on whether the TRIP/CLOSE lever is on the left or right of the charging handle.

### Can I charge the close and trip springs with the charging handle on the Bolt-Loc switch with the BL-30 actuator installed?

Yes, the Bolt-Loc switch charging handle can be operated with the BL-30 installed. This is a common feature that we try to design into our actuators where possible. This helps minimize the possibility of inadvertently operating the switch when installing the actuator.

### BL-30 Options

#### Control Cable

A 30-foot cable ships standard with the unit. A 50-foot cable is available as an option.

(Note: customer is responsible for determining cable length needed)

#### Carrying Case

A heavy duty Pelican carrying case is available.

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## Technical Specifications

- Power Supply: 16 - AA alkaline disposable batteries (24VDC total). Good for hundreds of operations
- Fuse: 4 amp, quick-blow, AGC-4
- Control Cable: 5-conductor, extra-flexible, PUR insulation, 30-feet (standard), 50-feet (optional)
- Controller: requires two-hand operation. The 'Enable' button must be depressed while depressing the 'Activate' button.

- A programmable microcontroller manages control inputs, motor functions, and performs timing functions to protect the motor in a stalled condition.
- An intelligent h-bridge motor driver provides start/stop/braking functions. The h-bridge has integral thermal shutdown protection.
- Projected life: 15,000 operations

## Dimensional Footprint

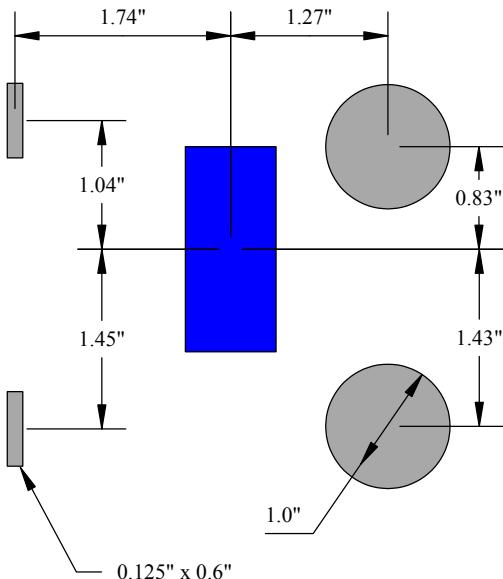


Figures A & B show the footprint space required on the customer's switchgear. The areas shown in grey must be clean and free of obstructions such as lamicoid nameplates. Note that the thin factory-installed metal nameplates that may be installed in this area should not interfere with mounting the BL-30 actuator.

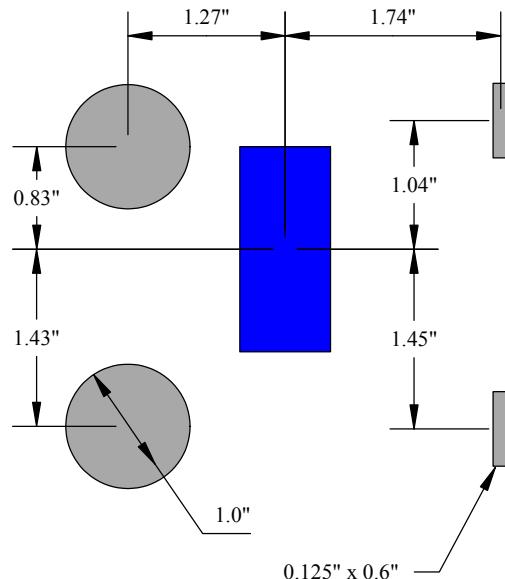
The BL-30 engages the Bolt-Loc lockout device as indicated by the BLUE areas in Figures A & B.

The footprint shown in Figure A is for Bolt-Loc switches where the TRIP/CLOSE lever is installed to the RIGHT of the charging handle.

The footprint shown in Figure B is for Bolt-Loc switches where the TRIP/CLOSE lever is installed to the LEFT of the charging handle.



**Fig A - Footprint required on customer switchgear (with TRIP/CLOSE lever on RIGHT of charging handle)**



**Fig B - Footprint required on customer switchgear (with TRIP/CLOSE lever on LEFT of charging handle)**