



For Cutler Hammer
SPB Breakers

Product Data SPB-1



Made in USA / U.S. Patent No. 7,623,011

The SPB-1 actuator is designed to operate the OPEN and CLOSE buttons on most (see list below) Westinghouse and Cutler Hammer Type SPB breakers.

The SPB-1 actuator is temporarily installed over the breaker OPEN and CLOSE buttons on your breaker 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. Linear actuators in the actuator will press the OPEN and CLOSE buttons as commanded by the hand-held controller. A microcontroller monitors controller inputs and drives the actuators through intelligent H-bridges. The entire unit is battery powered (12VDC) which eliminates the need for external power.

What do you get?

Included when purchasing the SPB-1 is the actuator, hand-held controller, 30-foot cable, batteries, instruction manual, and Pelican carrying case.

What types of SPB breakers does the SPB-1 work on?

The SPB-1 works on SPB breakers that have the smaller faced breaker. A partial list of these breakers is:

- SPB50 - 800A Frame
- SPB65 - 1600A Frame
- SPB100 - 1200A, 1600A, 2000A, 3000A Frames

Breaker manufacturers may provide options on their breakers that are not well documented. In some cases, these options can interfere with the installation or operation of the Chicken Switch actuator. Prior to purchasing a Chicken Switch actuator, it is highly recommended that the customer contact us so that we can assist in determining full compatibility with your breaker.

Can I charge the breaker with the manual charging handle on the breaker with the SPB-1 actuator installed?

Yes, the SPB-1 actuator is designed so that the breaker can be manually charged while the actuator is installed.

SPB-1 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)

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Technical Specifications

- Power Supply: 8 - AA alkaline disposable batteries (12VDC total). Fresh batteries will provide hundreds of operations.
- Fuse: 3 amp, quick-blow, AGC-3
- 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 OPEN or CLOSE button.
- Magnets: two 1-1/4" diameter neodymium
- A programmable microcontroller manages control inputs, motor functions, and performs timing functions to protect the motor in a stalled condition.
- Intelligent H-bridge motor drivers provide start/stop/braking functions. The H-bridge's have integral thermal shutdown protection.
- Projected life: 15,000 operations

Dimensional Footprint



Picture A - SPB-1 shown installed on breaker

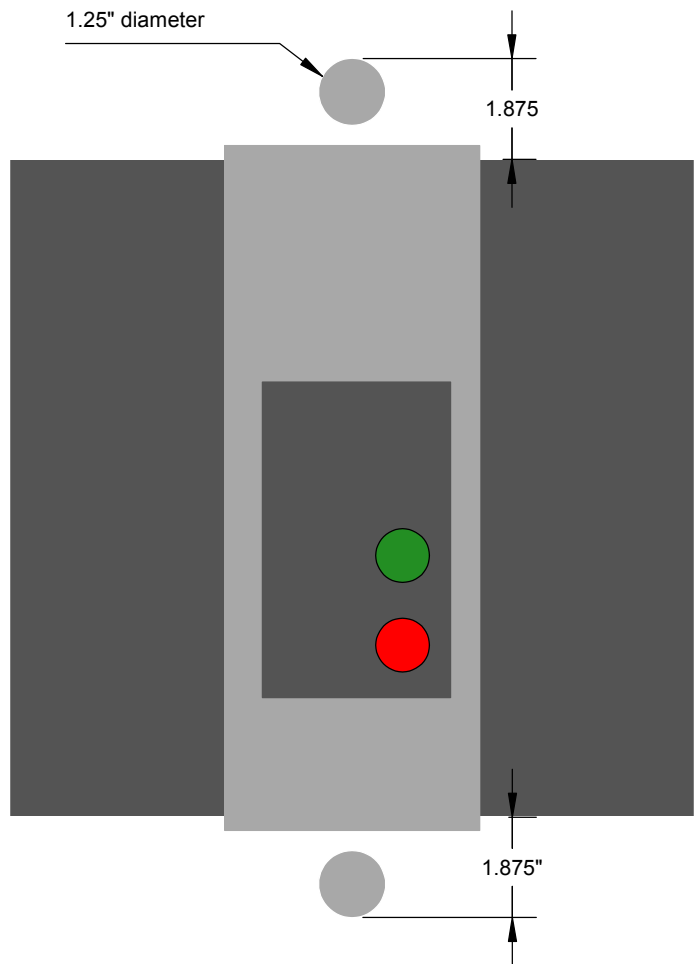


Figure B - Footprint required for SPB-1

Light Gray areas indicate the footprint of where the SPB-1 will contact the breaker and the switchgear door. This area must be clear of debris and lamacoid labels.