CHICKEN SWITCH®

Arc Flash Safety

For General Electric Power Break I Breakers

Made in USA

Product Data GEPB-1

The GEPB-1 actuator is designed to operate the 'Push OFF' and "ON' buttons on many of the General Electric Power Break I Series breakers.

The GEPB-1 actuator is temporarily installed over the top left of the 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 'Push OFF' and "ON' 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 (24VDC) which eliminates the need for external power.

What do you get?

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

What types of Power Break breakers does the GEPB-1 work on?

The GEPB-1 works on many of the General Electric Power Break I breakers that have the appropriate amount of space for the actuator magnets. See reverse side for clearance requirements.

Note that this actuator is for the original version of the GE Power Break breaker. The second generation, Power Break II, breaker requires the GEPB-2 actuator.

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 GEPB-1 actuator installed?

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

GEPB-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: 16 - AA alkaline disposable batteries (24VDC total). Fresh batteries will provide 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 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 - GEPB-1 shown installed on breaker

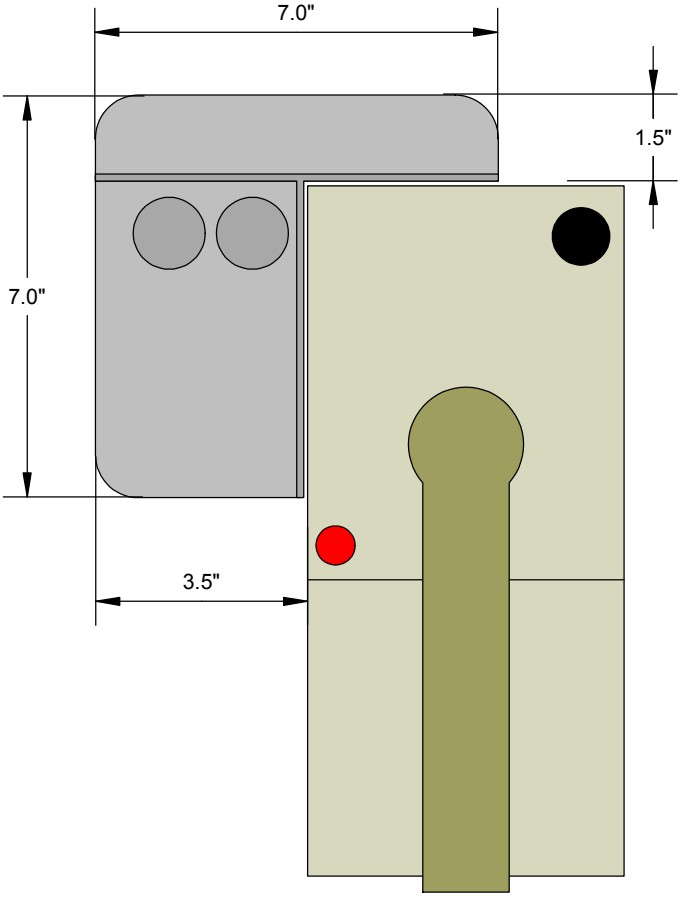

Figure B - Footprint required for GEPB-1
Dark Gray areas indicate the footprint of where the GEPB-1 will contact the switchgear door. This area must be clean and free from obstructions such as lamacoid nameplates. The Light Gray areas indicate the frame of the GEPB-1. This Light Gray area must be clear of anything that rises more than 3/4" from the switchgear door.