



Product Data DS10

 Made in USA / U.S. Patent Pending

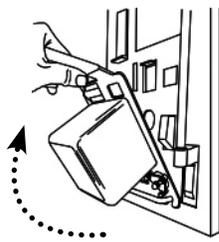
Our DS10 model actuator is designed specifically for the Westinghouse Type DS, DSL, DSII and DSLII breakers. These breakers have also been sold through Square D and Eaton/Cutler Hammer. The same DS10 actuator will operate all frame sizes, from 800A through 5000A.

The DS10 actuator is temporarily placed over the close and trip buttons on the breaker by aligning it on the breaker pull handle and tilting it into place. Strong neodymium magnets hold it firmly in place (no modification to the breaker is necessary). 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 operates to press the close or trip button as commanded from the hand-held controller. A microcontroller monitors controller inputs and drives the motor through an intelligent H-bridge which allows precise and smooth control of the breaker trip and close buttons. The entire unit is battery powered (24VDC) which eliminates the need for external power.

Three Easy Steps Installs in Seconds

No external power is needed and there are no modifications to your switchgear required.

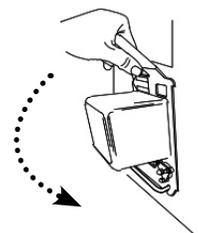
Step 1 Install



Step 2 Operate



Step 3 Remove



What do you get?

The DS10 includes the actuator, hand-held controller, cable, batteries, instruction manual, and heavy duty Pelican carrying case.

DS10 Option Control Cable

Available in 30-feet or 50-feet (It is the customer's responsibility to assure that an accurate arc-flash study of the customer's electrical system has been performed and the customer must determine the length of cable necessary to protect personnel.)

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Charleston, WV 25302

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Technical Specifications for DS10

Power Supply

16-AA alkaline disposable batteries (24VDC total).
Good for approximately 700 operations.

Fuse

5 amp, quick-blow, AGC-5

Control Cable

5-conductor, extra-flexible, PUR insulation, 30-feet (standard), 50-feet (optional)

Typical Operating Time

0.3 seconds per operation

Gearmotor

All metal gears in a formed metallic housing.
DC brushed permanent magnet motor.

Construction

All metal (typically aluminum) components are manufactured on CNC equipment for precision and quality.

Dimensions and Weight

Actuator is approximately 12"H x 6"W x 4"D. Total weight of complete kit including actuator, cable, hand-held controller, batteries, and case is 14lbs.

Magnets

Five total, neodymium (2-12600 gauss, 3-13,200 gauss)

Safety Interlock

Prevents installation on breaker if operating mechanism is not in neutral position (prevents accidental tripping or closing of breaker while installing actuator on breaker)

Microcontroller

A programmable microcontroller manages control inputs, motor functions, monitors and limits mechanical travel and performs timing functions to protect the motor in a stalled condition.

H-bridge

An intelligent 'H-bridge' motor driver provides start/stop/braking motor functions. The H-bridge has integral thermal shutdown protection.

Projected Life

10,000 operations



Quality Construction

Made in the USA. Parts are CNC-made for quality and accuracy.

Smooth and Precise Operation

Motor driven. No solenoid that "slam" the breaker buttons.

Magnetically Held

No modifications to your breaker are required.

DS10 Will Operate These Westinghouse/Eaton/Cutler-Hammer and Square D Breakers:

DSII-308	DSII-840	DS-206	DS-532
DSII-508	DSII-850	DS-206S	DS-632
DSII-608	DSLII-308	DS-206H	DS-840
DSII-516	DSLII-516	DS-416	DSL-206
DSII-616	DSLII-620	DS-416S	DSL-416
DSII620	DSLII632	DS-416H	DSL-632
DSII-632	DSLII840	DS-420	DSL-840