

Application Guide

550-0100 Compact Style Power Lock Actuator

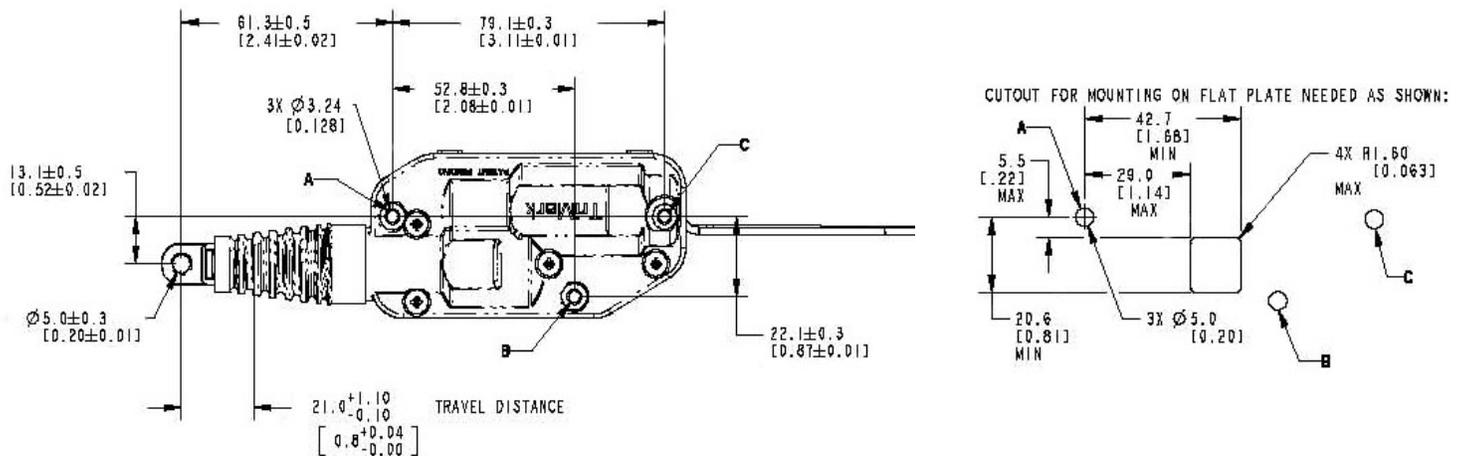
For consistent and trouble-free operation these guidelines must be followed:

ELECTRICAL:

- This actuator is designed to operate normally between 9 and 16 VDC, nominally at 12V
- Extension occurs when blue wire is positive (12V) relative to green wire. Retraction occurs when green wire is positive (12V) relative to blue wire.
- The actuator should not be energized for more than 0.5 seconds per event (extend or retract), and not more than 6 cycles per minute (without diminished performance due to thermal protection)
- Each actuator can draw up to 4.0 amps of current. Proper sized and located circuit protection is required at triggering device (switch/relay) that controls the actuator.
- Motor is equipped with 12V thermal protection. Excessive overuse will temporarily reduce effectiveness of actuator until actuator returns to normal temperature.
- Each actuator is tested to 10.0 lbs./44.5N—maximum output force is 13.5 lbs./60N. It is recommended that a minimum load of 2.5 lbs./11N be applied in the application for maximum product life.

MECHANICAL:

- Maximum operational efforts should not exceed 62 N (13.8 LBF) at nominal 12V, and should not vary more than +/-8 N (1.8 LBF) in a given application design
- The internal stops for the actuator's maximum and minimum extension should not be reached in an application. The application should limit the travel of the actuator to a dimension less than maximum and restrict complete retraction (Reference 21.0mm stroke dimension as shown in the illustration below).
- Side loads applied to the rotatable/detachable tip will significantly and detrimentally affect actuator performance and product life



INSTALLATION:

- This actuator should not be used in extremely wet environments, if it is intended to be used in a wet environment; the area where the wires enter the case must be level or pointed down relative to the horizon to reduce water infiltration
- Recommended mounting fastener; #8 self tapping screw (Reference TriMark P/N 19935-02)
- At least 2 of the 3 mounting holes must be used for proper stability and operation
- Recommended torque of mounting fasteners is not to exceed 2.8 Nm (25 in-lbs) during installation
- If the actuator is intended to be mounted on a flat plate the following mounting pattern and cutout must be used to avoid distortion and binding of the actuator case

TriMark can provide application assistance and has various mounting brackets available for various products—please inquire.



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