APPLIANCE | Thermoactuator

Description:

The thermoactuator is a small electric linear motor based on a temperature sensitive element. It can perform a linear stroke, even with a considerable load with a silent and slow movement. It consists of a thermoplastic housing incorporating a square section metal body, the wax motor, which contains a heat sensitive substance which expands by effect of a PTC thermistore. The thermoactuator is operated by an electrically energized PTC. The heat produced by the PTC itself is transferred to the wax motor. The "push" type thermoactuators once energized, push a plastic plunger out of the body. When de-energized, the wax motor cools down and the plunger, assisted by a spring, retracts to its rest position. The "pull" type thermoactuators once energized pull a plastic plunger inside body. The plunger itself is fully extended when at rest. Thermoactuators are available with 6, 8, 12 mm stroke and with additional mechanism to get angular movements.