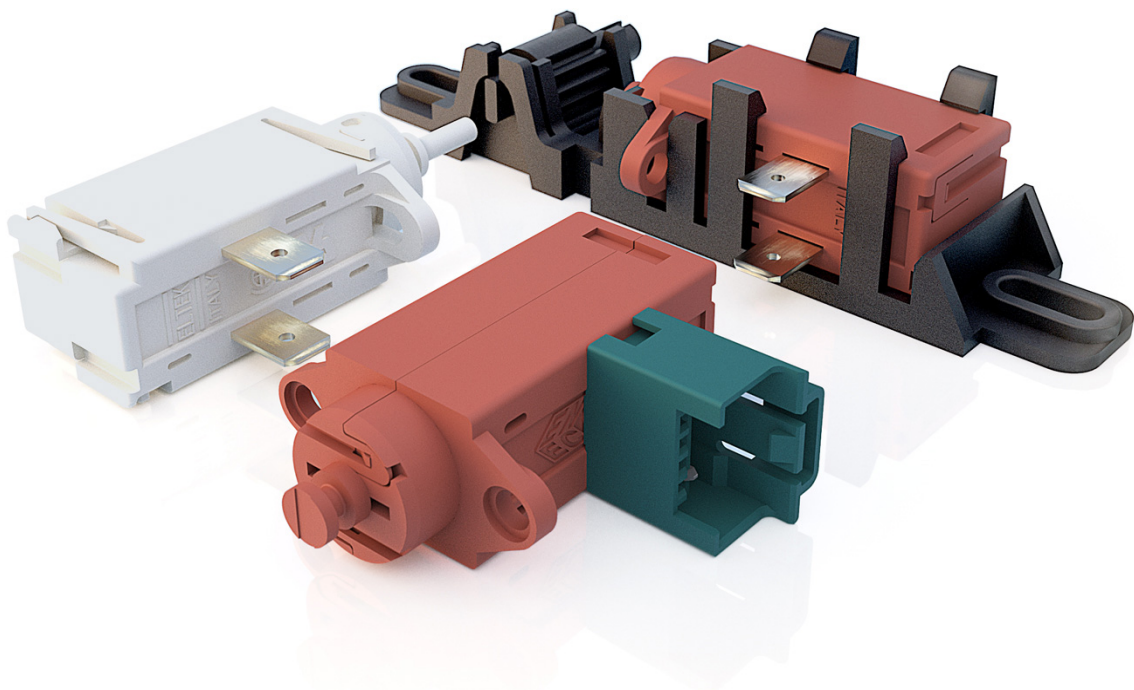
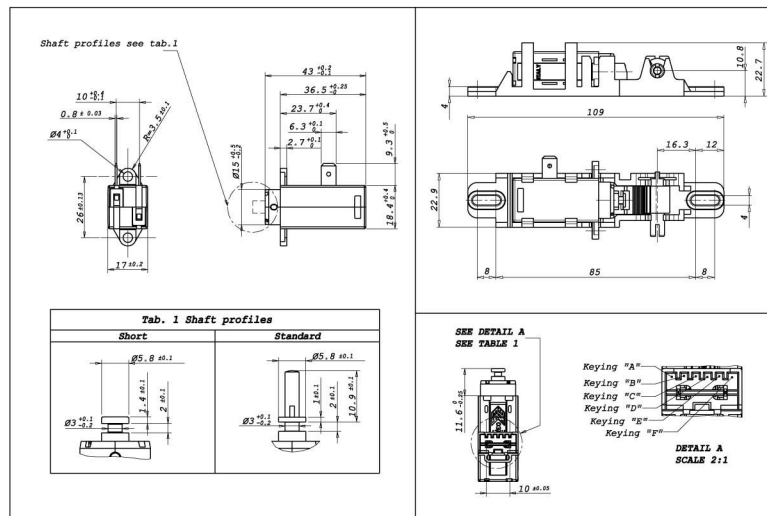


APPLIANCE | Thermoactuator

**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.



Part name: Thermoactuator

General characteristics:

- 6 to 8 mm stroke with same overall dimensions
- high force overall the stroke
- silent movement with no EMI interferences
- easy mountability
- high Glass content PA material
- high Glass content PPS material for high temperature environment
- push, pull and angular type
- from 110Vac to 240 Vac with the same component
- from 12Vac/dc to 24 Vac/dc with the same component
- faston or rast connector available
- optional bypass connection

Approvals:



Technical data:

Temperature Range	-10°C ÷ 90°C
Relative humidity	30% ÷ 95%
Force Value	up to 100 N depending on the specific p.n. and usage conditions
Torque Value	12 Ncm during the ON phase (for angular movement only)
Power consumption	2.8 +/- 1 W (for 12-24 V); 5.8 +/- 1 W (for 110 V) 5.5 +/- 1 W (for 220 V) in steady condition. (Current peek at start-up depending on the specific p.n.)
Stroke Time in ON Phase	from 30 to 60 seconds depending on the specific p.n. and usage conditions.
Stroke time during Off Phase	from 120 to 200 seconds depending on the specific p.n. and usage conditions.
Useful life	up to 18.000 cycles depending on the specific p.n. and usage conditions.