



Linear Solenoid

Linear solenoids provide unidirectional armature actuation. An energized coil positions the armature at one extent of the stroke, often paired with a spring to return the armature to its rest position. Applications are numerous including electrical relay switches, natural gas valve dampers, brake transmission shift interlocks (BTSI) and Electronic Park Lock (EPL) devices.

PERFORMANCE*

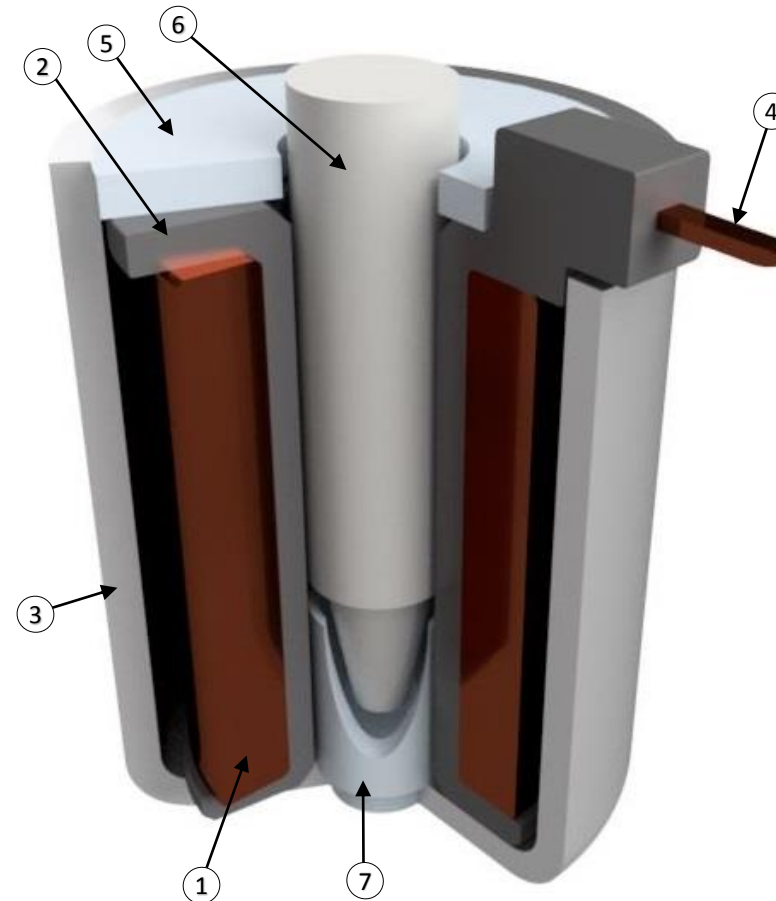
| | |
|-------------------|-------------------------------------|
| Operating Voltage | 9V to 16V |
| Duty Cycle | Continuous, Intermittent, Pulsating |
| Durability | UP to 10,000,000 Cycles |
| Stroke | Up to 32.0 mm |
| Force | Up to 90 N |

PACKAGE SIZE

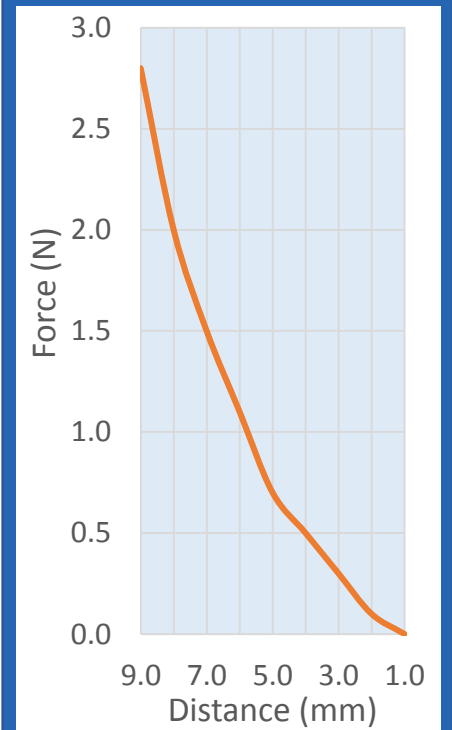
| | |
|-------------------------|---|
| Length x Width x Height | Typically based on customer specification |
|-------------------------|---|

CAPABILITY

| | | |
|---|--------------|--|
| 1 | Coil | Precision layer wound magnet wire; 20 - 35 AWG, Insulation rating up to 280°C |
| 2 | Bobbin | Thermoset or Thermoplastic |
| 3 | Flux Carrier | Low carbon steel, carbon steel bar, stainless steel, powdered metal, or metal injection molded (MIM) |
| 4 | Termination | Resistance Weld, Pulsed Arc Weld, IDC, Robotic Solder to customer specified connector. |
| 5 | Flux Washer | Low carbon steel, carbon steel bar, stainless steel |
| 6 | Armature | Low carbon steel, carbon steel bar, stainless steel |
| 7 | Pole Piece | Low carbon steel, carbon steel bar, stainless steel |



FORCE v. DISTANCE*



* Performance data is provided for reference purposes only and will vary based on application