Three-Position Latching Solenoid

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Description

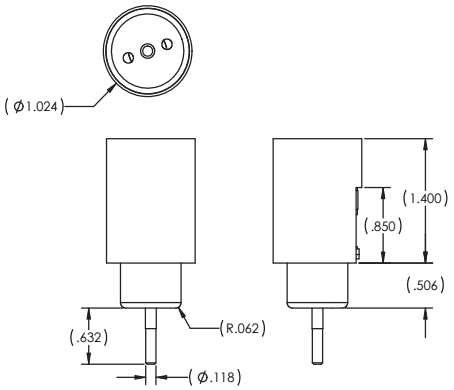
This example of latching technology is a three-position device with spring center and latch to end positions. The device can be designed to use either a permanent magnet or residual magnetism to hold the solenoid in the latched position. Strokes and latching forces are flexible depending on solenoid size.

Typical Applications

- Door Locks
- Hydraulic Valves
- Position Controls
- ATM Machines
- Relays
- Web Controls
- Security Devices
- Medical Supply Cabinets

Features & Benefits

- Compact design
- High latching forces
- Fast response
- Low power consumption
- Three positions
- Can be designed for specific load holding capability
- Can be designed to configure with customer power requirements



Typical Specifications *(Custom configurations available)*

Stroke (can be designed to specification)	<6.4 mm (<.25 in)
Latching Force (approx. for size shown)	44 N (10 lbs)
Response Time	< 8 ms
Centering Force	13 ± 4 N (3 ± 1 lb)
Current	12 amps max
Durability	>100M cycles
Coil Resistance at 20°C	5 Ω

LATCHING TECHNOLOGY

Capable of holding in position without the constant application of electrical current. Latching technology is well suited for battery operated applications.

HIGH-SPEED TECHNOLOGY

For applications requiring extremely accurate and high speed control of fluids, position or pressure. TLX's technology allows for response times in as little as 200 microseconds.

PROPORTIONAL TECHNOLOGY

For applications requiring accurate and repeatable control, low hysteresis, and a flat force vs. stroke curve. TLX's technology allows for a smaller package size for the same force requirement.

HIGH TEMPERATURE TECHNOLOGY

For applications requiring consistent performance under extremely high operating temperatures. TLX's high temperature technology offers proven operation in ambient temperatures exceeding 500°F (260°C).

ISO 9001:2015 Certified

View more information and read additional case studies on our website at www.tlxtech.com.

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