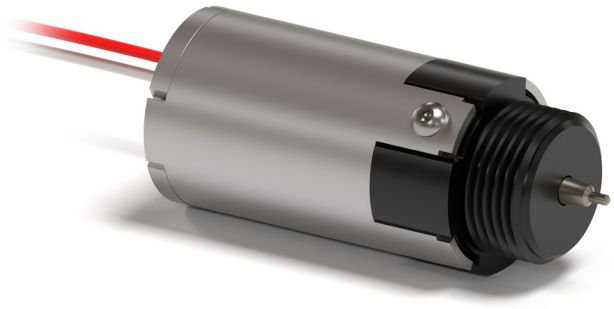

Magnetic Locking Solenoid

The magnetic locking solenoid was originally designed for a safety system on food processing equipment. This latching solenoid had a fast response time and maintained state without drawing any current. A short current pulse of one polarity latched the armature, which was held in position by a permanent magnet. A second pulse of the opposite polarity released the armature. The solenoid was configurable for either push or pull operation and was customizable to suit the force and stroke requirements of different applications.

Features & Benefits

+ Compact design
+ Low power consumption
+ Battery operable
+ Configurable for push or pull operation
+ Customizable force and stroke

Applications

+ Banking Equipment
+ Battery-Operated Locks
+ Business Equipment
+ Locking Mechanisms
+ Medical Equipment
+ Sorting Equipment
+ Vending Equipment

Technical Data (custom configurations available)

+ Stroke: 4 mm
+ Coil resistance at 20°C: 16 Ω
+ Supply voltage: 9 Vdc
+ Response time: 12 to 15 ms
+ Minimum coil operating voltage: 4 Vdc
+ Maximum coil operating voltage: 9.9 Vdc
+ Extending force (4 Vdc): 3.5 N
+ Retracting force (4.8 Vdc): 6.7 N

All TLX components are customized to fit system requirements, meaning technical specifications are unique to each customer and design. Examples given are for illustration purposes only.

+1 262-372-2165 | sales@tlxtech.com | tlxtech.com

Dimensional Drawings (dimensions in millimeters [inches])