

Latching Solenoid

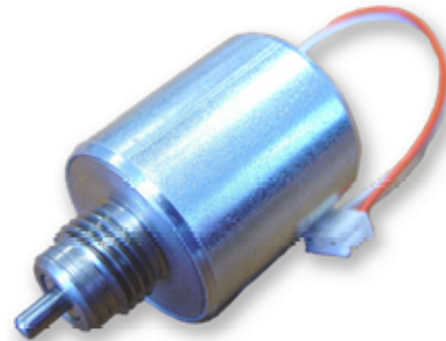
(Reference #01005)

Description:

The solenoid is energized to move to the latched position with a short voltage pulse. Once the voltage is removed, the permanent magnet maintains the solenoid in the latched position. The solenoid is spring returned to the de-latched position by providing a short, reverse polarity voltage pulse, which cancels the permanent magnet field. Strokes and forces are flexible depending upon solenoid size.

Features:

- Compact design
- Low cost
- Can be optimized for specific load shifting capability
- Can be optimized to configure with customer power requirements
- Over 100,000 cycles on 4AA batteries



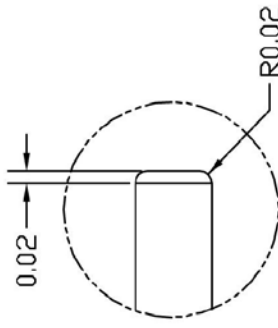
Specifications:

English (metric as applies)

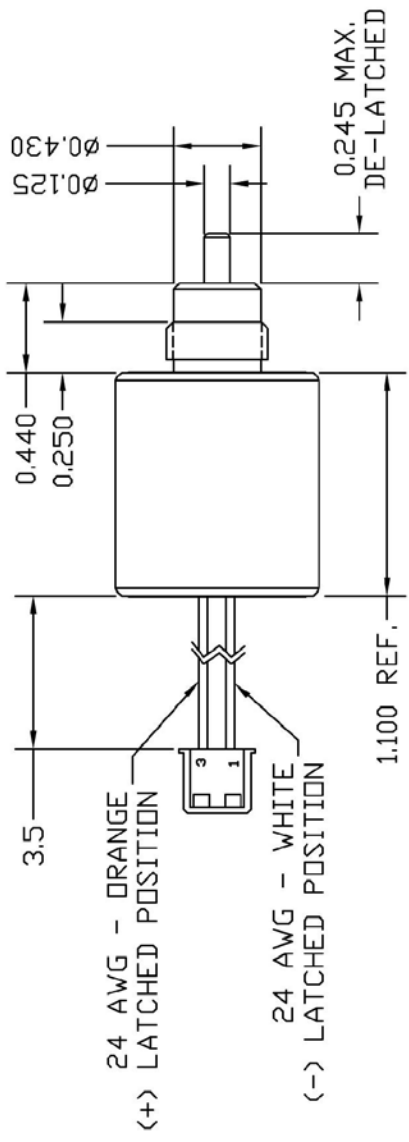
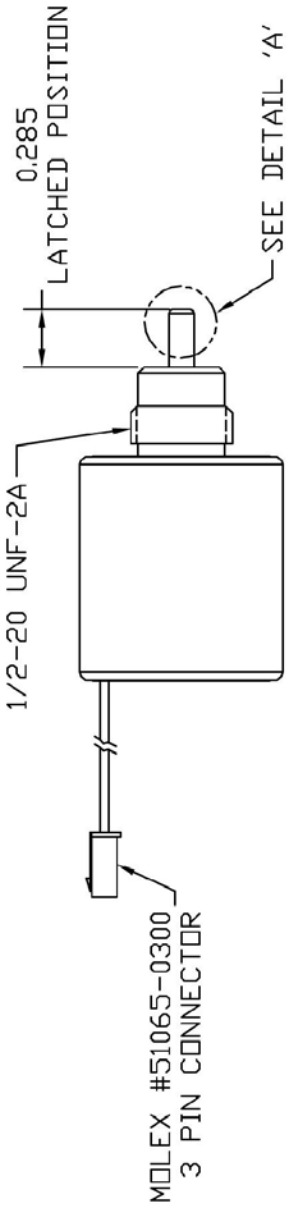
Stroke (can be designed to specification)	.06 in (1.5 mm)
Net Latching Force	>5.0 lbs (>22 N)
Supply Voltage	4.2 to 6.5 Vdc
Response Time	<15 ms
Operating Temperature Range	-40 to 140°F (-40 to 60°C)
Dynamic Side Load	10 lbs (44.5 N) max
Static Side Load	>500 lbs (>2224 N)
Durability	>10M cycles
Connector Type	Molex #51065-0300

Possible applications:

- ◆ Electric locks
 - ◆ Electric oil meter control
 - ◆ Computer case lock
 - ◆ Computer docking station lock
- ◆ Business machines
 - ◆ ATM machines
 - ◆ Battery operated locks
 - ◆ Vending equipment
- ◆ Medical supply cabinets
 - ◆ Fuel controls
 - ◆ Spool lock
 - ◆ Business equipment



DETAIL 'A'
3X SCALE



PERFORMANCE SPECIFICATION	
SUPPLY VOLTAGE:	4.2-6.5 VDC
COIL RESISTANCE@20 °C:	5.8 +/-0.5 OHMS
STROKE:	0.06" +/-0.020"
SPRING LOAD: (LATCHED POSITION)	2.5 LBS. MIN.
SPRING LOAD: (DE-LATCHED POSITION)	0.2 LBS. (REF.)
NET LATCHING FORCE:	5.0 LBS. MIN.
CYCLE LIFE WITH 4-AAA BATTERIES	10,000 MIN.

SPECIFICATIONS	
Material:	
Surface Treatment:	Remove All Burrs.
CAD File No.	01005-WEB

TLX TECHNOLOGIES

STANDARD DIMENSIONAL TERMS ARE:
DIMENSIONS IN () ARE IN mm
ANGULAR DIMENSIONS ARE ± 1°

- 1 DECIMAL POINT (0.1) IS ± .020
- 2 DECIMAL POINT (0.01) IS ± .010
- 3 DECIMAL POINT (0.001) IS ± .005
- 4 DECIMAL POINT (0.0001) IS ± .0001

G.D & T PER ANSI 14.5M

UNLESS SPECIFIED, DO NOT SCALE FROM DRAWING

1:1

Drawn By: _____ Date: _____
 Chk By: _____ Date: _____

Revision

01005-WEB

LATCHING SOLENOID

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