

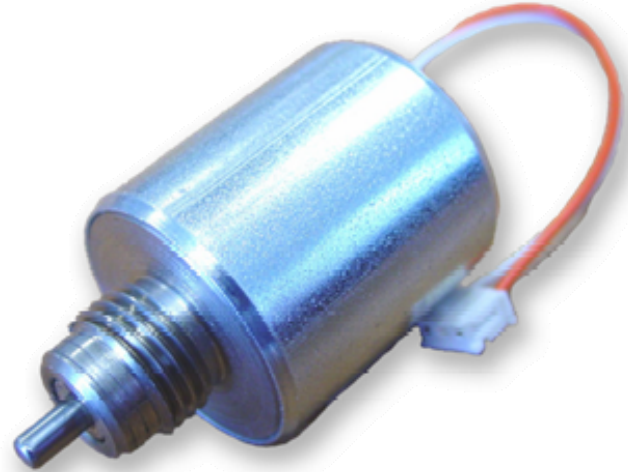
## 01005 - Latching Solenoid

### 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 10,000 cycles on 4AA batteries



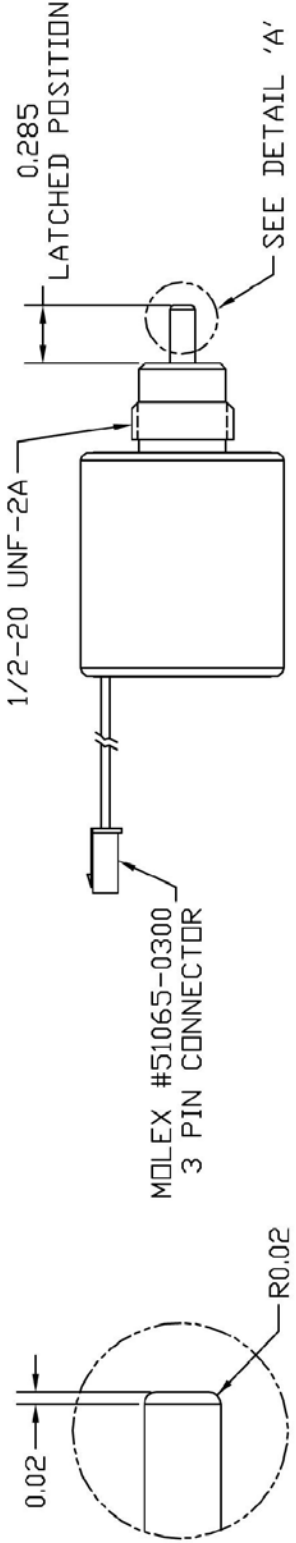
### Typical Specifications:

### English (metric as applies)

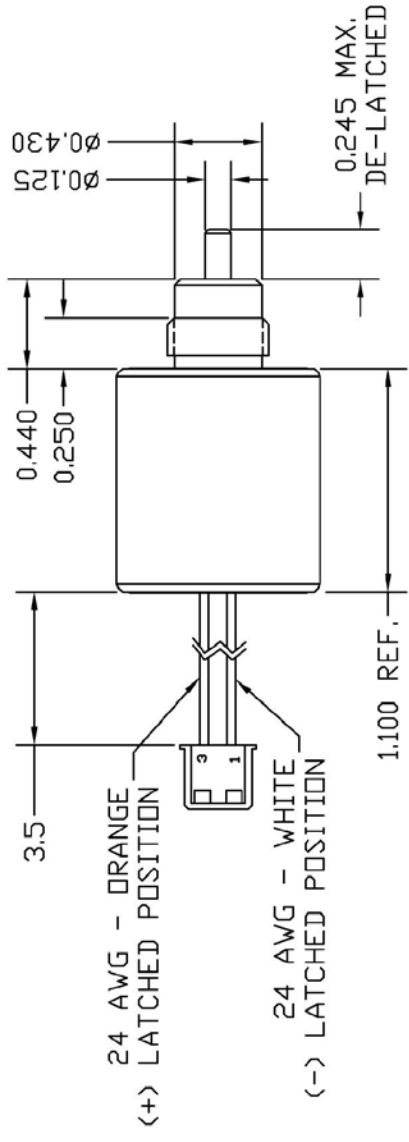
Stroke (can be designed to specification)	0.06 inch ±.020" (1.5 mm)
Net Latching Force	>5.0 lbs (>22 N)
Supply voltage	4.2 – 6.5 VDC
Response time	< 15 msec
Operating temperature range	-40 to 140 °F (-40 to 60 °C)
Dynamic side load, (maximum)	10 lbs (44.5 N)
Durability	> 10,000 cycles
Connector type -- Molex	

### Possible applications:

- |                                 |                          |                           |
|---------------------------------|--------------------------|---------------------------|
| • Electric locks                | • Business machines      | • Medical supply cabinets |
| • Electric oil meter control    | • ATM machines           | • Fuel controls           |
| • Computer case lock            | • Battery operated locks | • Spool lock              |
| • Computer docking station lock | • Vending equipment      | • 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 U ARE IN mm ANGULAR DIMENSIONS ARE ± 1°

1 DECIMAL POINT (.0) IS ± .020  
 2 DECIMAL POINT (.00) IS ± .010  
 3 DECIMAL POINT (.000) IS ± .005  
 4 DECIMAL POINT (.0000) IS ± .0001

G.D & T PER ANSI 14.5M

UNLESS SPECIFIED DO NOT SCALE FROM DRAWING

DRG SIZE SCALE 1:1  
 Drawn By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Chk By: \_\_\_\_\_ Date: \_\_\_\_\_

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Description  
**LATCHING SOLENOID**

Drawing Number  
**01005-WEB**

Revision