

# Latching Solenoid

## Description:

This example of latching technology is energized 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.

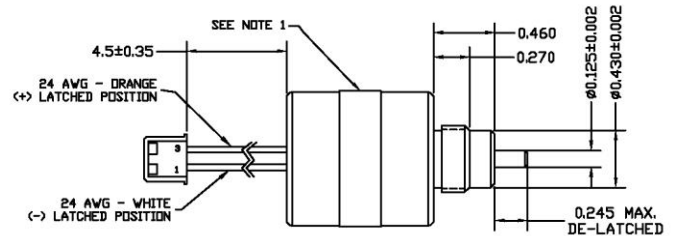
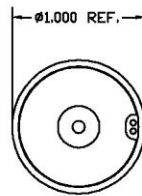
## Features:

- Compact design
- Low cost
- Can be designed for specific load shifting capability
- Can be designed to configure with customer power requirements
- Optimized for battery life



## 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



## Example Specifications:

## English (metric as applies)

Stroke (can be designed to specification)	.06 ± .02 in (1.5 ± .508 mm)
Net Latching Force	>4.75 lbs (>21.13 N)
Supply Voltage	4.2 to 6.5 Vdc
Coil Resistance at 20°C	2.8 ± .3 Ω
Spring Load (latched position)	>2.3 lbs (>10.23 N)
Spring Load (de-latched position)	1 lb (4.45 N)
Cycle Life with 4 AA Batteries	>10K cycles