

## PA0016 -Intrinsically Safe Latching Solenoid

### Description

This example of an intrinsic safe-latching solenoid with high speed “extend” operation was originally designed to protect run-away pumps. A similar design can be customized to fit a variety of safety applications.

### Features:

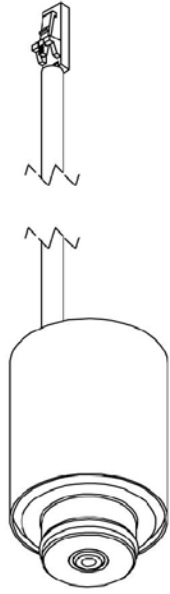
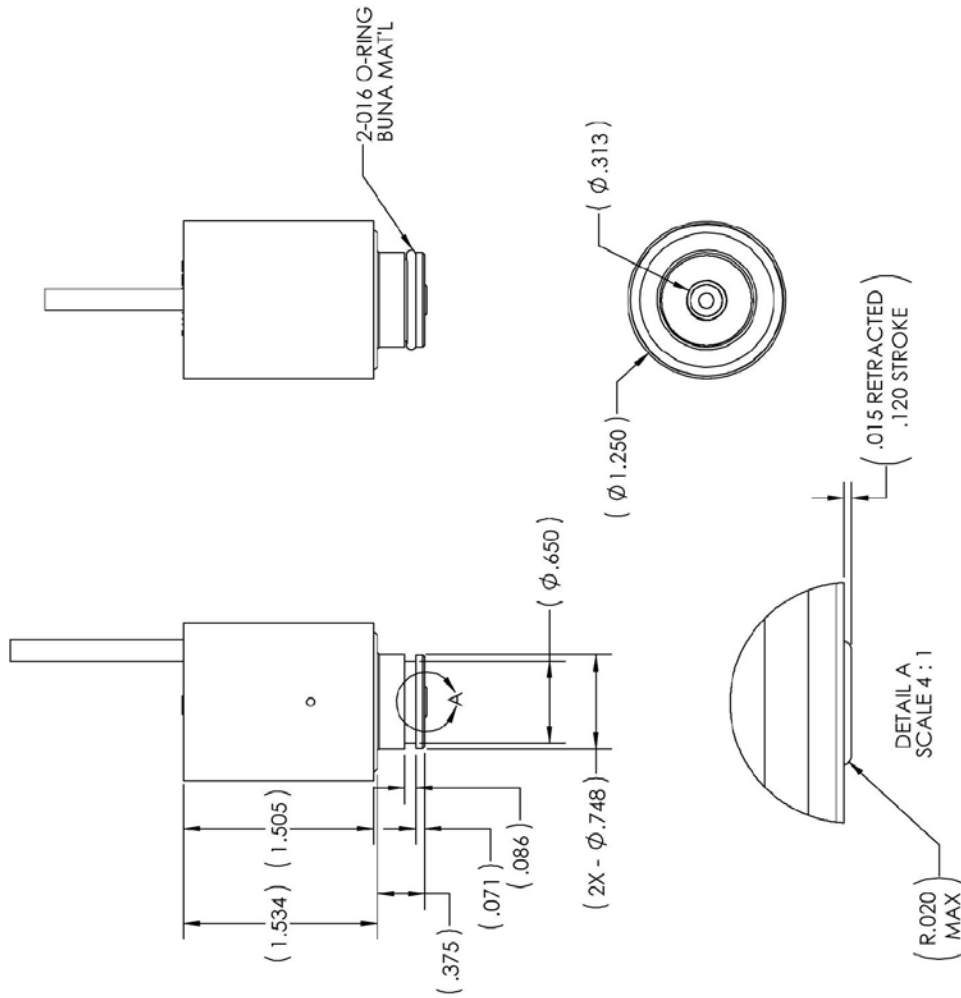
- High speed extend and retract
- Built in protection circuitry
- Can be configured to customer electronic drivers
- Environmentally protected



### Specifications:

#### English (metric as applies)

Stroke (can be designed to specification)	.120 inch
Reaction time (extend/retract)	17-26 milliseconds
Resistance at 70°F	13.0 ± 05 Ω
Supply voltage	6,12, or 24
Inductance at 1 KHZ	26 mH max.
Operating Voltage	6.8-7.8 Volts
Operating Temperature	-40 to 140 °F -40 to 60°C
Net Spring Preload	.65 lbs. minimum



PERFORMANCE SPECIFICATIONS	
OPERATING VOLTAGE	6.8 - 7.8 VOLTS
RESISTANCE @ 70°F	13.0 ±.5 OHMS
INDUCTANCE @ 1KHZ	26 mH MAX
NET SPRING PRELOAD	0.65 LBS MIN
POSITIVE VOLTAGE TO EXTEND	PIN 1
POSITIVE VOLTAGE TO RETRACT	PIN 2
POTTING COMPOUND	COTRONICS DURAPOT 861

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES	TOLERANCES:	DRAWN	9/9/9999
ANGULAR: $\pm$	OF FACE DECIMAL: $\pm$ 0.01	CHECKED	
THREE PLACE DECIMAL: $\pm$ 0.005		ENG APPR.	
		MFG APPR.	
		G.A.	
INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:		
MATERIAL:			
FINISH:			
DO NOT SCALE DRAWING			

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF TLX TECHNOLOGIES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF TLX TECHNOLOGIES IS PROHIBITED.

TLX TECHNOLOGIES	
TITLE: LATCHING SOLENOID	
SIZE	DWG. NO.
<b>B</b>	<b>PA0016-WEB</b>
SCALE: 2:1	WEIGHT: SHEET 1 OF 1