

## Intrinsically Safe Latching Solenoid

(Reference #PA0016)

### Description:

Originally designed to protect “run-away” pumps, this intrinsically safe latching solenoid with high speed “extend” operation is an excellent solution for applications involved in highly flammable or combustible environments. Design can be customized to fit a variety of safety applications.



### Features:

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

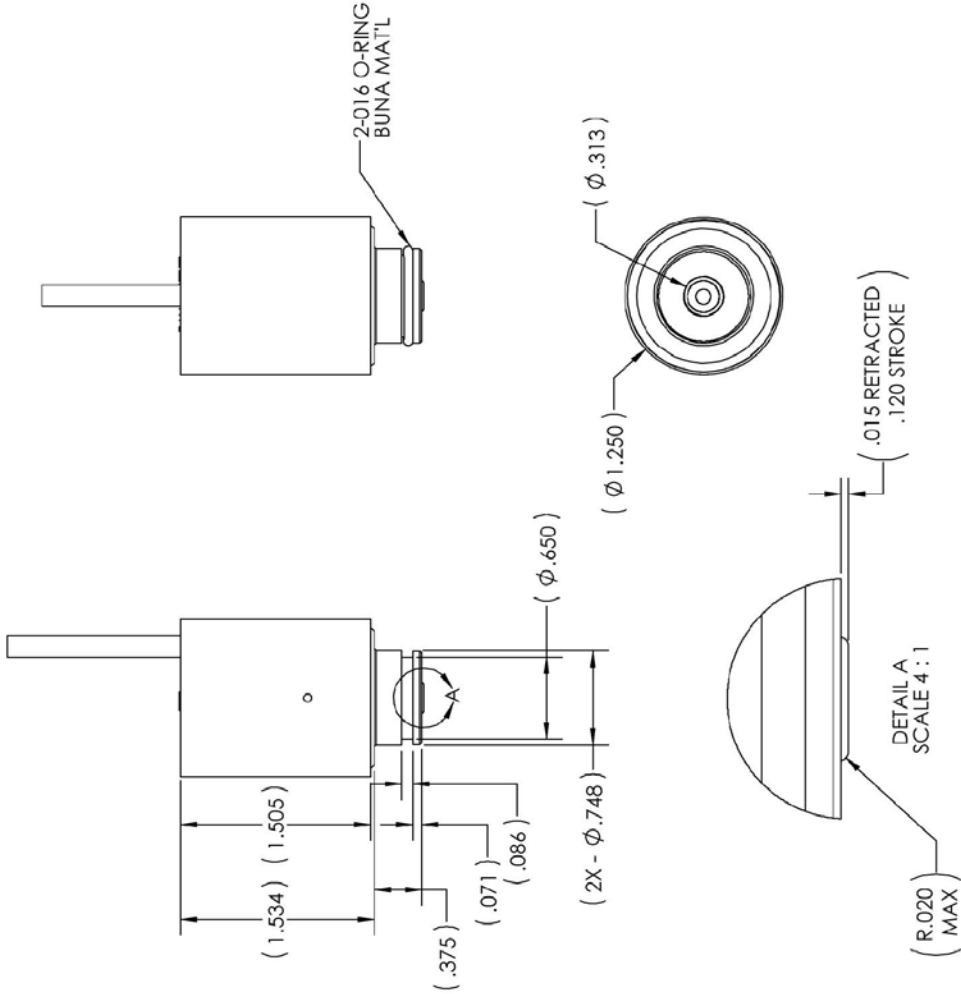
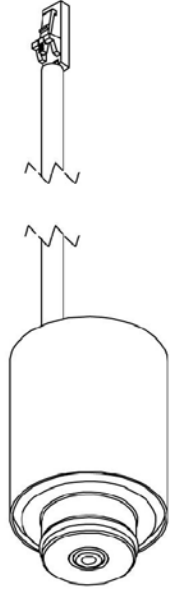
### Specifications:

**English** (metric as applies)

Stroke (can be designed to specification)	.120 in (3.05 mm)
Supply Voltage	6, 12 or 24 Vdc
Response Time	17-26 ms
Operating Temperature Range	-40 to 140°F (-40 to 60°C)
Operating Voltage	6.8-7.8 Vdc
Resistance at 20°C	13.0 ± .5 Ω
Inductance a 1 kHz	26 mH max
Net Spring Preload	.65 lb (2.9 N) min

### Possible applications:

- Flammable gas, vapor or liquid environments
- Combustible dust environments
- Ignitable fibers environments



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		JDM	9/9/9999
TOLERANCES:			
ANGULAR: ±°			
HOLE DECIMAL: ±.01			
PLATE DECIMAL: ±.005			
THREE PLACE DECIMAL: ±.005			
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL:			
FINISH:			
COMMENTS:			
DO NOT SCALE DRAWING			

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DRAWN		DATE	
CHECKED		TITLE:	
ENG APPR.		TLX TECHNOLOGIES	
MFG APPR.		LATCHING SOLENOID	
G.A.		SIZE	
COMMENTS:		DWG. NO.	
		B PA0016-WEB	
		REV	
		SCALE: 2:1	
		WEIGHT:	
		SHEET 1 OF 1	