

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:

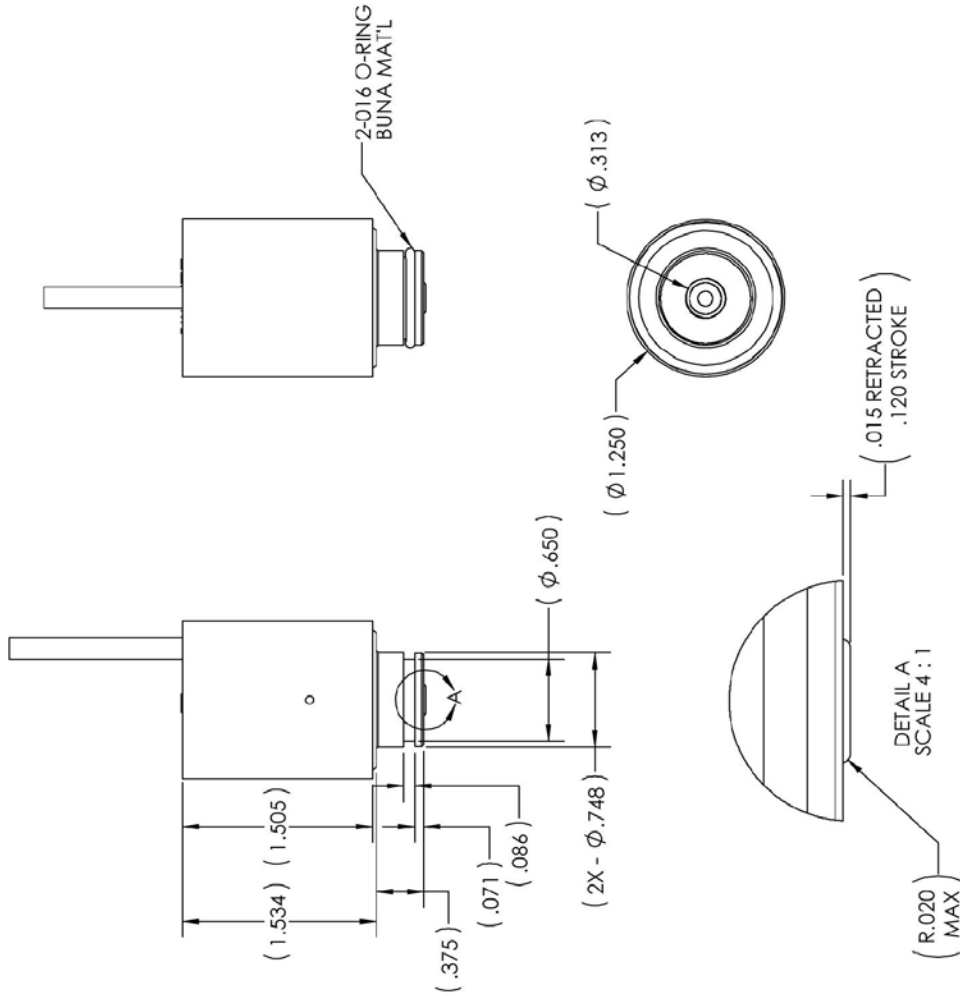
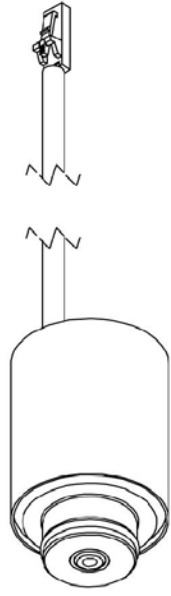
- High speed extend and retract
- Built in protection circuitry
- Can be configured to customer electronic drivers
- Environmentally protected



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		JDM	9/9/9999
TOLERANCES:		DRAWN	
ANGULAR: ±°		CHECKED	
HOLE DECIMAL: ±.01		ENG APPR.	
THREE PLACE DECIMAL: ±.005		MFG APPR.	
INTERPRET GEOMETRIC TOLERANCING PER:		G.A.	
MATERIAL:		COMMENTS:	
FINISH:			
DO NOT SCALE DRAWING			

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LATCHING SOLENOID

SIZE: DWG. NO. **B PA0016-WEB** REV _____
 SCALE: 2:1 WEIGHT: _____ SHEET 1 OF 1