EA120 SPDT Series

Features

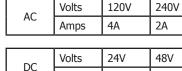
- Non-contact magnetically actuated limit switch no torgue on actuator or valve needed
- Qualified to Westinghouse AP10 eters
- Manufacturing business system complies with 10CFR50, Appendix B, 10CFR Part 21, and ANSI N45.2
- Proprietary SNAP-LOCK® technology that enables internal latching mechanism to eliminate chatter under seismic or high vibration conditions
- Available with QDC milled onto the Stainless steel housing
- Available with pre-wired flying leads
- Gold-plated, fine silver contacts
- High temperature components throughout
- Seismic and vibration resistant

Technical Data

- Contact Rating: • Single Pole Double Throw (SPDT) Form C contacts, quick make - quick break
- Housing: Stainless steel
- Size:
- Length: 4" (101.6mm)

Weight: 0.45lbs / 0.2kg (free lead version, excluding pig tails);

0.55lbs / 0.25kg (ODC connector, excluding cable assy)



2A

1A

Amps

PEEK insulated leads

EA120 SPDT in Harsh Environment With Accident Conditions (LOCA/HELB)

- Operating Temperature: -4° to 212°F (-20° to 100°C)
- Environmental qualification:

Qualified for 100 years 112°F (40.5°C) 60 years 131°F (73°C) Radiation: 363 MRad gamma Seismic: 8.8G Pressure: 104psig (717 KPa) under LOCA condition Max Temperature: 540°F / 282°C (HELB) 480°F / 249°C (LOCA)

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Product	Description			
EA120-11XXX*	SPDT w/ Flying Leads			
EA120-12000	SPDT w/ QDC			
EC390-44XXX*	Plug In Cable Assy for SPDT w/ QDC			
EA120-10001	Target Magnet			
EA120-10002	Target Magnet (0.25" Actuation)			

*XXX - Designates Lead Length

EA120 SPDT in Harsh Environment Without Accident Conditions

• Operating Temperature: -4° to 212°F (-20° to 100°C)

EA120 SPDT in Mild Environment

Radiation: < 1 Mrad Seismic: 8.8G

Environmental gualification:

Environmental gualification:

Qualified for 100 years 112°F (62°C) 60 years 131°F (73°C) Radiation: 363 MRad gamma Seismic: 8.8G

• Operating Temperature: -4° to 212°F (-20° to 100°C)

Qualified for 60 years 112°F (40.5°C)

Product Description EA120-51XXX* SPDT w/ Flying Leads EA120-52000 SPDT w/ QDC EC590-44XXX* Plug In Cable Assy for SPDT w/ QDC EA120-10001 Target Magnet Target Magnet (0.25" Actuation) EA120-10002

*XXX - Designates Lead Length

Product	Description	
EA120-31XXX*	SPDT w/ Flying Leads	
EA120-32000	SPDT w/ QDC	
EC490-44XXX*	Plug In Cable Assy for SPDT w/ QDC	
EA120-10001	Target Magnet	
EA120-10002	Target Magnet (0.25" Actuation)	

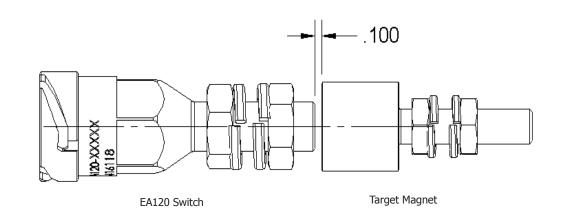
PROXIMITY SWITCHES

*XXX - Designates Lead Length

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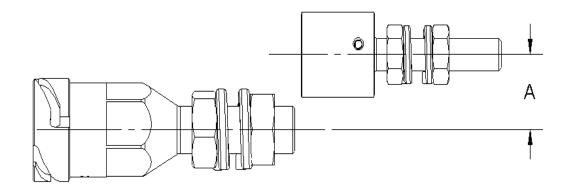
EA120 SPDT

Target magnet installed within 0.10" (2.54mm) of switch.



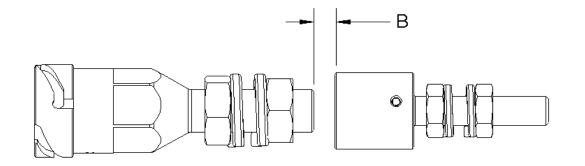
Radial Actuation

Switch trips within 0.20" (5.08mm) from centerline. Switch releases outside 0.60" (15.24mm) from centerline.



Axial Actuation

Switch trips within 0.10" (2.54mm). Switch releases outside of 0.50" (12.7mm)



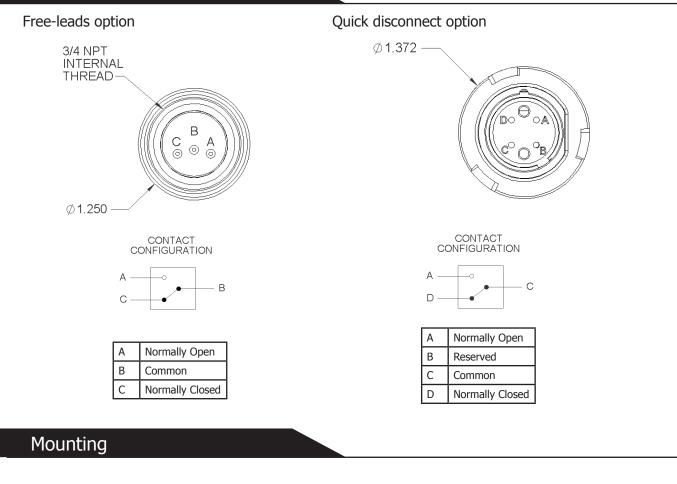
All dimensions given in Inches (mm)

MAGNETIC PROXIMITY SWITCHES

EA120 SPDT

EA120 SPDT Series

Electrical Contact Information



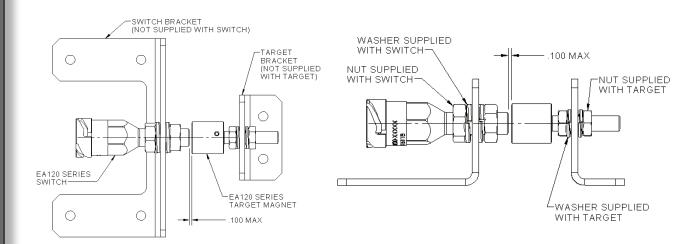
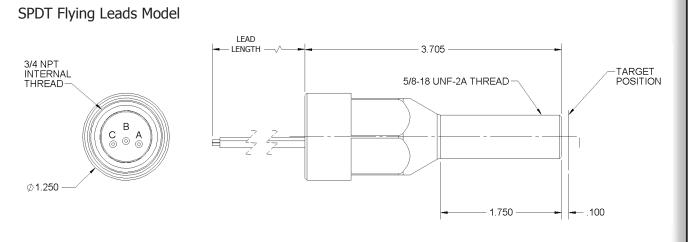


Figure reflects switch in "actuated" position. Two 5/8-18 jam nuts and two 5/8" lock washers supplied with switch. Target magnet EA120-10001 required for operation (sold separately). Average hysteresis: 0.20" (5mm) to 0.40" (10mm)

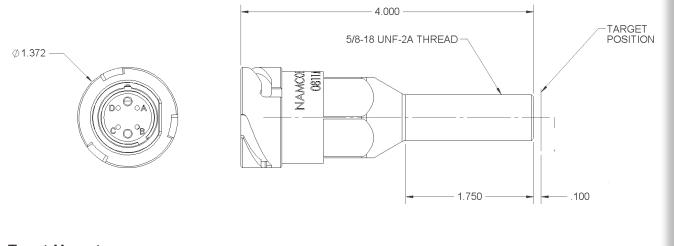
All dimensions given in Inches (mm)

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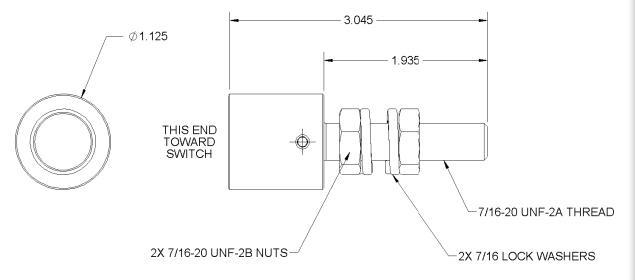
Outline Drawings



SPDT Quick Disconnect Model



Target Magnet



MAGNETIC PROXIMITY SWITCHES