

P6X SERIES

P6X SERIES SOLID-STATE PRESSURE SWITCH

Flight Control | Braking | Thrust Reverse | Landing Gear

The P6X Series solid-state switch provides superior accuracy, performance over temperature and high cyclic life. This series offers high dielectric withstanding capability, flameproof stainless steel welded construction and customer specified factory set switch points. The P6X solid-state switch has no moving parts or internal seals to degrade or cause leakage. Designed to be used in aerospace systems that monitor or control flight surfaces, braking, thrust reversers and landing gear actuators.



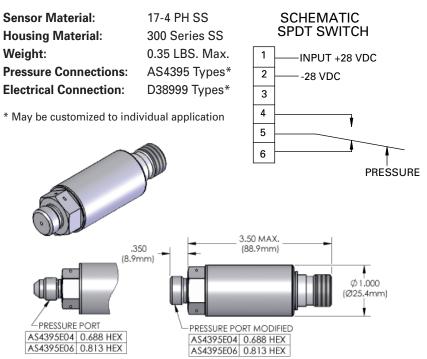
SET POINT (PSIG)	TOLERANCE (PSIG)	PROOF PRESSURE (PSIG)	BURST PRESSURE (PSIG)
1000 to 5000	± 50	7500	10,000

P6X FEATURES

- RTCA DO –160 Qualified
- 5 Million Cycle Life
- Customer Specified/Factory Set Switch Points
- Form C (SPDT) Solid State Contacts, Rated 400mA, 40 VDC
- Stainless Steel Construction Compatible with all Hydraulic Fluids
- No Internal Seals to Cause Leaks
- Polysilicon Sensor Technology
- Hermetically Sealed/Secondary Containment
- EMI Protected
- 3 Year Warranty



MECHANICAL SPECIFICATIONS



HOW TO SPECIFY

Call us at 203.877.2795 and ask for an engineer. Locate our representative in your area via our website.

OR... E-MAIL US AT

Sales Department: sales@precisionsensors.com Technical Department: askanengineer@precisionsensors.com

Visit www.precisionsensors.com and utilize our "Ask An Engineer" form.

TECHNICAL SPECIFICATIONS		INSTALLATION INFORMATION	
Pressure Range	1000 Through 5000 PSIG	Input Voltage	15 to 45 VDC Reverse Polarity Protected
Accuracy	± 50 PSIG, -20 to 85°C, ± 75 PSIG, -40 to 120°C	Supply Current	Less than 15 mA
		Dielectric Resistance	1250 VDC, < 1mA Leakage
Proof Pressure	7,500 PSIG	Insulation Resistance	> 100 MΩ at 500 VDC
Burst Pressure	10,000 PSIG	Form C Switch (SPDT)	Rated 400mA, 40 VDC
	ENVIRONMENTA	L SPECIFICATIONS	
Operating Temperature Range	-55 to 85°C (-67 to 185°F)	Operating Altitude Range	-2,000 FT to +70,000 FT
Storage Temperature Range	-55 to 125°C (-67 to 257°F)		
	RTCA DO-16	0 COMPLIANCE	
Section 4: Temp and Altitude	D2	Section 18: Audio	Z
Section 5: Temp Variation	А	Frequency Conducted	
Section 6: Humidity	С	Susceptibility – Power Inputs	
Section 7: Operational Shocks and Crash Safety	В	Section 19: Induced Signal Susceptibility	ZC
Section 8: Vibration	CAT R, Curves E, E1	Section 20:	Т
Section 9: Explosion Proof	ENV II	Radio Frequency Susceptibility	
Section 10: Waterproofness	S	Section 21: Emission	М
Section 11: Fluids Susceptibility	F	of Radio Frequency Energy	
Section 12: Sand and Dust	D	Section 22: Lightning Induced	B4K44
Section 13: Fungus Resistance	F	Transient Susceptibility	
Section 14: Salt Spray	S	Section 24: Icing	А
Section 15: Magnetic Effect	Z	Section 25: ESD	А
Section 16: Power Input	Z	Section 26: Fire, Flammability	A
Section 17: Voltage Spike	А		
RELIABILITY		MISCELLANEOUS	
Cycle Life	5 Million Pressure Cycles	Response Time	Less than 1 msec
MTBF	200,000 hrs		



UNITED ELECTRIC CONTROLS

Precision Sensors Division

50 Seemans Lane, Milford, CT 06460 USA Telephone: 203.877.2795 Fax: 203.877.8752 www.precisionsensors.com Certification of Approval to ISO 9001:2000 and AS9100 Revision B/Section 1

