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ALTHERIS
SENSORS & CONTROLS

Model 777/777B
General purpose accelerometer

Dynamic

Sensitivity, ±10%, 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response at ±3 dB, nominal	0.5 - 12,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
–50°C	–10%
+85°C	+5%

Electrical

Power requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	700 µg
Spectral	10 Hz	10 µg/√Hz
	100 Hz	5 µg/√Hz
	1000 Hz	5 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage		12 VDC
Grounding		case isolated (>10^8Ω at 100V), internally shielded

Environmental

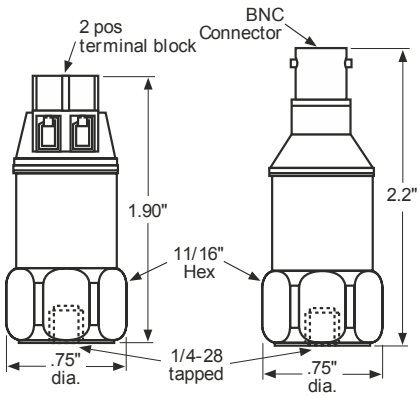
Temperature range	–50 to 85°C
Vibration limit	500 g
Shock limit, min	5,000 g
Electromagnetic sensitivity, equiv. g, max	70 µg/gauss
Sealing	IP66
Base strain sensitivity, max	0.0005 g/µstrain

Physical

Sensing element design	PZT ceramic / shear
Weight	75 grams
Case material	stainless steel
Mounting	1/4 - 28 UNF tapped
hole Output connector	see table
Mating connector	see table
Recommended cabling	J10

Features

- Ground isolated • ESD protection



Model 777 Model 777B

Model	Connector	Power/ signal	Common	Mating connector
777	2 position terminal block	+	–	N/A
777B	BNC coaxial	center contact	shell	R2

Accessories supplied: SF6 1/4-28 mounting stud; protective vinyl boot (777 only)

Accessories available: SF6M 1/4-28 to M8 adapting stud