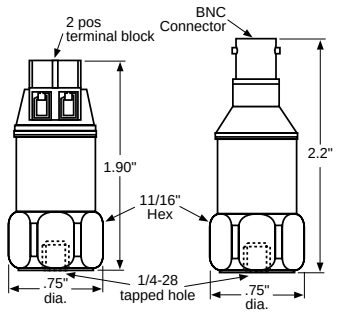
Model 777/777B
General Purpose Accelerometer

FEATURES
- Ground isolated
- ESD protection



Model 777 **Model 777B**

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	epoxy
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

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

Due to continued research and development, Wilcoxon Research reserves the right to amend this specification without notice.

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