

General purpose accelerometers

777 and 777B

SPECIFICATIONS

| | | |
|--------------------------------------------|------------------|--------------------------------------------------------------|
| Sensitivity, $\pm 10\%$, 25°C | | 100 mV/g |
| Acceleration range | | 80 g peak |
| Amplitude nonlinearity | | 1% |
| Frequency response: | ± 3 dB | 0.5 - 12,000 Hz |
| Resonance frequency | | 30 kHz |
| Transverse sensitivity, max | | 5% of axial |
| Temperature response: | -50°C | -10% |
| | +85°C | +5% |
| 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 μ g |
| Spectral | 10 Hz | 10 μ g/ $\sqrt{\text{Hz}}$ |
| | 100 Hz | 5 μ g/ $\sqrt{\text{Hz}}$ |
| | 1,000 Hz | 5 μ g/ $\sqrt{\text{Hz}}$ |
| Output impedance, max | | 100 Ω |
| Bias output voltage | | 12 VDC |
| Grounding | | case isolated ($>10^8 \Omega$ at 100V), internally shielded |
| Temperature range | | -50° to +85°C |
| Vibration limit | | 500 g |
| Shock limit, min | | 5,000 g |
| Electromagnetic sensitivity, equiv. g, max | | 70 μ g/gauss |
| Sealing | | IP66 |
| Base strain sensitivity, max | | 0.0005 g/ μ strain |
| Sensing element design | | PZT, shear |
| Weight | | 75 grams |
| Case material | | stainless steel |
| Mounting | | 1/4-28 UNF tapped hole |
| Output connector and mating connector | | see Connections table below |
| Recommended cabling | | J10 |

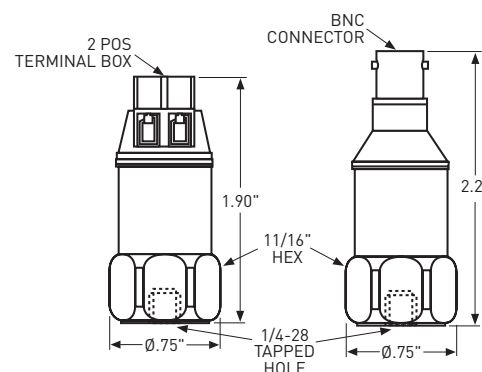
Accessories supplied: SF6 mounting stud; protective vinyl boot (777 only)

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



Key features

- Ground isolated
- Manufactured in ISO 9001 facility



Model 777

Model 777B



Connections

| Model | Connector pin | Power/Signal | Common | Mating connector |
|-------|---------------------------|----------------|--------|------------------|
| 777 | 2-position terminal block | + | - | N/A |
| 777B | BNC coaxial | center contact | shell | R2 |

Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.