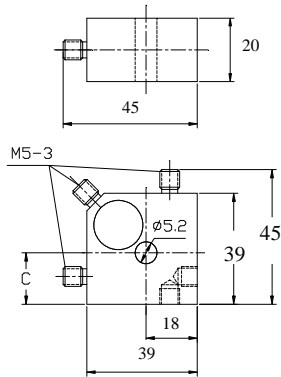




## IEPE Tri-Axial Measurement Accelerometer

### Model NTI-16500



#### DYNAMIC

Sensitivity $\pm 5\%$	-----	500 mV/g
Measurement Range	-----	$\pm 10$ g peak
Broadband Resolution	-----	20 $\mu$ g rms
Amplitude Nonlinearity	-----	1 %
Frequency Range $\pm 5\%$	-----	0.5 – 1.5 kHz
$\pm 10\%$	-----	0.3 – 2 kHz
Resonance Frequency	-----	8 kHz
Transverse Sensitivity	-----	$\leq 5$ %

#### ELECTRICAL

Excitation Voltage	-----	18 - 30 VDC
Constant Current Excitation	-----	2 – 20 mA
Output Impedance	-----	$\leq 100 \Omega$
Output Bias Voltage	-----	12 VDC
Spectral Noise (10 Hz)	-----	2.4 $\mu$ g / $\sqrt{\text{Hz}}$
(100 Hz)	-----	0.8 $\mu$ g / $\sqrt{\text{Hz}}$
(1000 Hz)	-----	0.6 $\mu$ g / $\sqrt{\text{Hz}}$

#### ENVIRONMENT

Maximum Vibration	-----	80 g peak
Maximum Shock	-----	200 g peak
Operation Temperature	-----	-40 to 248°F / -40 to 120°C
Sealing	-----	Welding
Base Strain Sensitivity	-----	0.008 g/ $\mu$ strain

#### PHYSICAL

Sensing Element	-----	Ceramic / Shear
Housing Material	-----	Stainless Steel
Output Connector / Position	-----	M5 / Side
Mounting Thread	-----	M5 Through Hole
Weight	-----	200 gram

#### ACCESORIES SUPPLIED

- Ø 2 mm x 1 m Low Noise Cable with M5 - BNC Connectors
- M5 Through Hole Mounting Screw
- Calibration Certificate

Note: Output connector and mounting screw can be changed to English 10-32 thread by request.

Typical Sensitivity Thermal Response

