

A/301/F/HT Industrial Piezoelectric Accelerometer

25pC/g nom. 400°C max (F/HT) 150gm



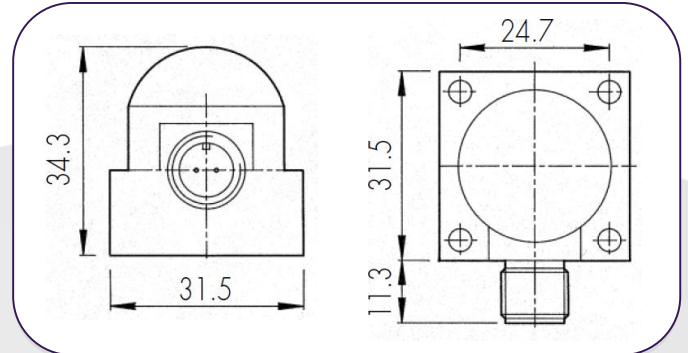
Industrial grade vibration transducers. The A/301/F/HT is rated to 400°C and the signal output is floating, via 2 pole hermetic connector, thus minimizing common mode interference.

This type of robust industrial high output industrial sensor offers long life and ultra-high temperature range.

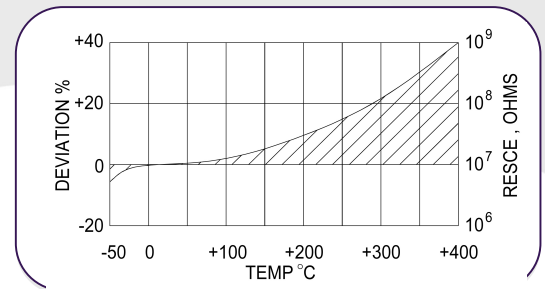
The A/301/F/HT is a fully welded construction with welded electrical connections internally to ensure long life performance. Based on the DJB unique KONIC shear® design of ceramic sensing element the A/301/F/HT is a charge output accelerometer and as such is subject to data degradation if contaminants enter the transducer and/or connector. In addition it is essential a high quality low noise cable is used to minimize the impact of triboelectric noise.

High temperature operation of the HT may subject to degradation due to increased pyro-electric charge generation, together with a significant fall in insulation resistance. Instrumentation bandwidth should be constrained to the minimum needed measurement integrity.

A/301/F/HT



Temperature Response



A/301/F/HT	Metric	Imperial
Charge sensitivity nom.	2.55pC/(m/s ²)	25pC/g
Capacitance pF	300 / 900	300 / 900
Resonant frequency kHz	8	
Typical Frequency Response	1Hz – 3kHz 0.7Hz – 4kHz	
Cross axis error % max	5	
Temperature range	-50 / +400°C	-58 / +752°F
Charge sensitivity deviation	-5% @ -50°C / +40% @ +400°C	-5% @ -58°F / +40% @ +752°F
Pyro-electric output, g/°C	0.2	
Pyro-electric corner freq. (Hz)	0.002	
Base strain sens g/μ strain	≤0.01	≤0.01
Maximum shock	9,807m/s ²	1000g
Case material	Inconel 600	Inconel 600
Mounting	4x 3.8mm holes, 35mm	4x 0.15in holes, 1.38in PCD
Weight	150gm	5.29oz
Case seal	Welded, hermetic	Welded, hermetic
Size	31.5 x 25.4 x 24.7mm	1.24 x 1 x 0.97in
Connector	7/16" UNS 2 pole	7/16" UNS 2 pole connector

Options

A/301/F/HT

- Close tolerance output: temperature calibration to 400°C (HT)
- Proof pressure testing to 80bar
- Cable length and terminating connectors to be specified at point of order

Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes

DJB Instruments (UK) Ltd

Finchley Avenue,
Mildenhall, Suffolk IP28 7BG

Tel +44 (0)1638 712 288
Email sales@djbinstruments.com
Web www.djbinstruments.com

DJB Iss.4.2020

A UK company with UK-based manufacturing, assembly and calibration in-house.



ISO 9001 – 00025363