



Miniature piezo-electric accelerometer

A/25/E

2pC/g nom. • 1.5gm wt.
200°C max. temp.

Sub-miniature, all welded, KONIC sensing element based vibration transducer. The low mass of the A/25/E renders it transparent in the vast majority of lightweight structure vibration measurement applications.

The A/25/E is adhesive mounted. A detachment tool is provided to shear adhesive joints. Shock removal is to be avoided as being deleterious to the integrity of the transducer.

Abrasive cleaning of the attachment face will reduce base thickness over time, sparing use of adhesive will aid longevity.

Signal outlet is via a surface contact socket. Mating connector preload torque should be 7cNm, the locknut tightened to 12cNm for signal integrity to 10,000g. Insufficient preload may result in intermittent signal loss.

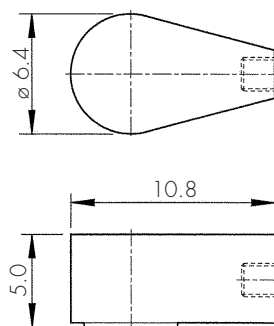
APPLICATIONS

Modal analysis of lightweight structures, high level vibration to 5,000g, shock measurement to 10,000g.

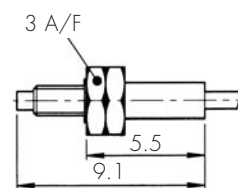
options

- > wideband temperature calibration -50/+200°C
- > proof shock testing
- > available as a tri-axial designated type A/32

A/25/E

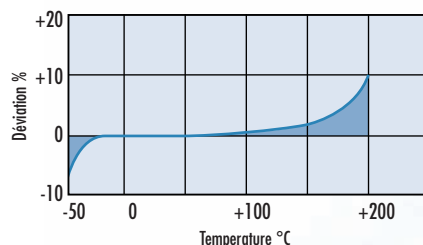


L5 CONNECTOR



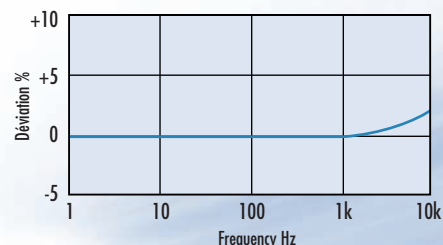
dims. mm

TEMPERATURE RESPONSE



FREQUENCY RESPONSE

Results obtained using loctite 496 adhesive



CONVERSION MODE	KONIC
Charge sensitivity pC/g	1.3/2.7
Capacitance pF	220/320
Resonant frequency kHz	60
Cross axis error % max	5
Temperature range °C	-50/+200
Charge sensitivity deviation re 20°C	-5 % @ -50°C +15 % @ +200°C
Pyro-electric output, g/°C	0.15
Pyro-electric corner freq. Hz	0.005
Base strain sen. g/μ strain	< 0.01
Max continuous accn. g sine	5000
Max shock g pk., rise time μ sec.	10000, 20
Case material	s/steel 303 S31
Mounting	adhesive
Weight gm	1.5
Connector	L5
Case seal	welded