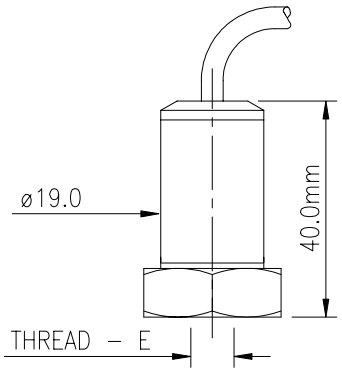
PZA 6 SERIES ACCELEROMETER



- LOW COST
- LIGHT INDUSTRIAL
- INTERNAL AMPLIFIER
- STAINLESS STEEL HERMETICALLY SEALED CASE
- FREQUENCY RANGE 2.5Hz TO 11KHz (0.8Hz OPTION)
- INTERNALLY SHIELDED
- FULLY SCREENED

The PZA6 accelerometer is intended to satisfy the general specification requirements for a low cost vibration transducer for use in multi-point experimental or light industrial vibration monitoring applications.

The two-wire current-loop operating principal permits very long interconnecting cables to be used where necessary and at minimum expense since standard screened pair (or multi-pair) cables may be used.

The piezo-electric sensor and internal electronics are fully screened within a metal body. External connections are made via a top exit integral armoured cable, length to be confirmed in metres. Connector versions of this instrument are also available.

DS1128

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PZA6 ACCELEROMETER

SPECIFICATION

Operating Voltage/current	18 to 28 volts D. C. constant current source of 2 to 10mA
Output signal	100mV/g superimposed on 12Vdc +/- 20% (others available)
Dynamic Range	Up to 70g peak (at 24Vdc input)
Frequency Range	2.5Hz to 11KHz (better than 3dB) (standard) 0.8Hz to 11KHz (better than 3dB)
Transverse sensitivity	Less than 5%
Amplitude linearity	+/- 1% or better
Temperature sensitivity	Less than 5% up to 150°C 1% per 25°C over range -30°C to + 150°C
Residual electrical noise	Less than 0.2mg (2.5Hz to 11KHz) or 0.5mg (0.8Hz to 11KHz)
Signal transmission	Two wire system. Connector variants, contact Sensonics For details
Weight	80 gms (nominal)

Environmental

Acceleration limit:	Vibration	200g pk at 120Hz for 10 mins
	Shock	500g half sine without connector
Temperature:	Operation	-25°C to + 150°C
	Survival	-55°C to + 170°C
		N.B. Certain types of connector or cables may limit the Temperature performance of the transducer, see IS. Sheet for Details.
Protection (BS.EN60529)		Sealed to IP.66/IP.67

ORDERING INFORMATION

PZA6 - [A: 2] [B:] [C:] [D:] [E:] [F:] [0]

A Electrical Configuration

- 2 - 2 wire ICP device

B Connection Method

- 6 B - Integral Cable (80°C) Armoured
- 6 D - Integral Cable (150°C) Armoured
- 8 F - Integral Connector, BNC

C Cable length (Specify in whole metres)

- 0 2 - e.g. = 2 metres (max 25 metres)
- 0 0 - For no cable, i.e. connector versions of instrument.

D Output & Frequency band (3dB point)

- 1 - 100mV/g 5% (2.5Hz – 11KHz)
- 2 - 100mV/g 10% (2.5Hz – 11KHz)
- 3 - 100mV/g 10% (0.8Hz – 11KHz) low frequency option

E Mounting Thread (Male)

- 1 - ¼ UNF
- 2 - M6
- 3 - M8
- 4 - Quick Release
- 5 - 10/32 UNF

F Hazardous Area Approval

- 0 - Non Intrinsic

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