

vibro-meter

certified by



Piezoelectric Accelerometer Type CA 201

CHARACTERISTICS

- Industrial vibration monitoring
- High sensitivity
- Differential output
- Hermetically welded
- CENELEC approved
- Internal case insulation
- Integral cable

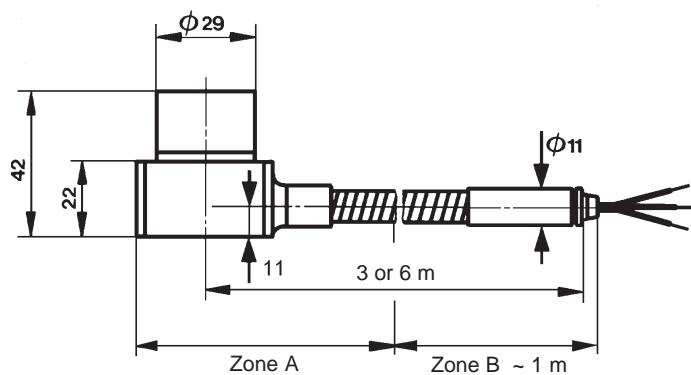


DESCRIPTION

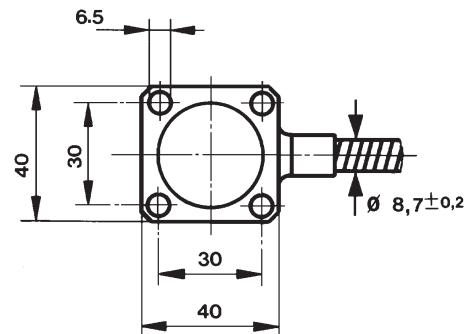
The CA 201 accelerometer is equipped with a symmetrical shear mode polycrystalline measuring element, which has internal case insulation. The transducer is designed for heavy-duty industrial monitoring

and measurement of vibration. The accelerometer is fitted with an integral cable protected by a stainless steel flexible tube welded to the case. The CA 201 accelerometer is available in CENELEC approved versions and has a high sensitivity.

Mechanical Drawing :



Min. bending radius: 50 mm.
Clipping points of the cable should
be no more than 100 to 200 mm apart.



GENERAL**Input power requirements :**

None

Signal transmission :

2 pole system insulated from casing, charge output

Signal processing :

Charge amplifier

OPERATING TEMPERATURE (at 23°C ±5°C)**Sensitivity (at 120 Hz) :**

100 pC/g ±5%

Dynamic measuring range (random) :

0.0001 g to 200 g peak

Overload capacity (spikes) :

Up to 250 g peak

Linearity :

≤1% between 0.0001 g and 20 g peak, max. 2% between 20g and 200 g peak

Transverse sensitivity :

≤5%

Resonant frequency (mounted) :

11 kHz nominal

Frequency response :

±5% between 0.5 Hz and 3000 Hz (lower cut off frequency is determined by conditioner used) ≤10% between 3 kHz and 4.5 kHz

Internal insulation resistance :Min. 10⁸ ohms**Capacitance :**

3300 pF nominal pole to pole, 1200 pF nominal pole to casing (for 6 m integral cable)

Calibration :

Dynamic calibration at factory at 5 g peak and 120 Hz (+23°C).

No subsequent calibration necessary.

Accessories :JB 105 / JB 116 Junction box
IPC Signal conditioner**Ordering Information :**

To order please specify:

- Type and designation : CA 201 Piezoelectric accelerometer
- Ordering No. : With integral cable 3 m 144-201-000-2
- With integral cable 6 m 144-201-000-4
- Ex i with integral cable 3 m 144-201-000-1



Due to the continual development of our products we reserve the right to modify the specifications without forewarning.



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Vibro-Meter is a member of the
Meggit Aerospace Systems Division