

GENERAL PURPOSE TOP-MOUNT INDUSTRIAL ACCELEROMETER

ACC310

- ✓ 2-Pin MIL-Style Connector
- ✓ Splashproof Design
- ✓ Ground Isolated
- ✓ Hermetic Seal
- ✓ For Motors, Pumps, Gearboxes, and General Industrial Applications

SPECIFICATIONS

Sensitivity @ 100 Hz, $\pm 10\%$: 100 mV/g

Frequency Range:

| | |
|------------|----------------|
| $\pm 5\%$ | 5 Hz to 10 kHz |
| $\pm 10\%$ | 4 Hz to 12 kHz |
| ± 3 dB | 2 Hz to 20 kHz |

Turn-On Time: ≤ 0.5 s

Amplitude Range: ± 75 g peak

Mounting Resonance: > 40 kHz

Transverse Sensitivity: $\leq 5\%$

Amplitude Linearity: $< 1\%$

Noise (Typical):

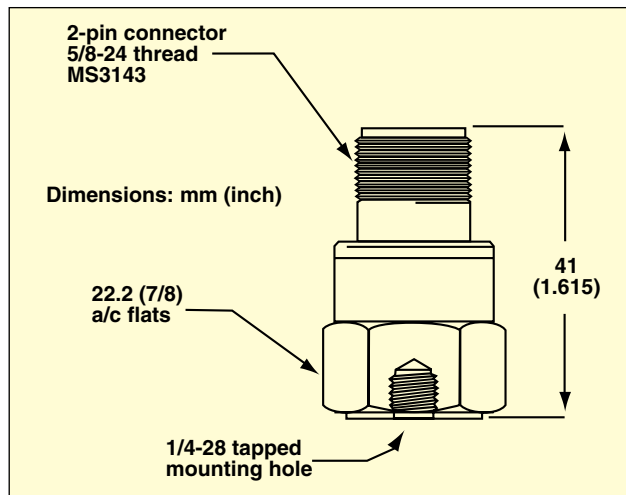
Broadband:

2.5 Hz to 20 kHz 350 μ g

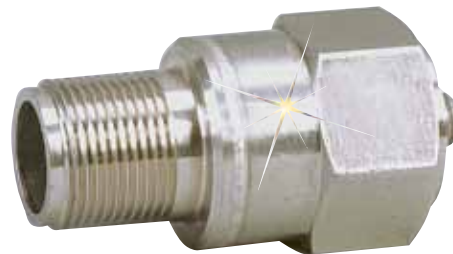
Spectral: 10 Hz 30 μ g/ μ Hz

100 Hz 8 μ g/ μ Hz

1000 Hz 3 μ g/ μ Hz



ACC310 shown larger than actual size.



Output Impedance: 100 Ω

Grounding: Isolated

Bias Voltage: 10 to 14 Vdc

Power Requirement: 24 to 30 Vdc

Current Regulating Diode:

1 to 6 mA cc

Temperature Range: -40 to 121°C
(-40 to 250°F)

Base Strain Sensitivity, Maximum:

0.001 g/microstrain

Shock Limit: 5000 g peak

PHYSICAL

Weight: 68 g (2.4 oz)

Case Material: 304L SS

Design: Piezoelectric—ring shear

Sealing: Welded—hermetic

Mounting: 1/4-28 stud (not included)

Mounting Torque: 2.8 N-m (25 in-lb)

Mating Connector: Amphenol

97-3106A-10SL-4S

Recommended Cabling: ACC-CB7-10

To Order

| MODEL NO. | DESCRIPTION |
|-----------|---|
| ACC310 | General purpose accelerometer with top exit connector |

ACCESSORIES

| MODEL NO. | DESCRIPTION |
|--------------|---|
| ACC-CB7-10 | 3.05 m (10') MIL/BNC twisted-pair shielded cable |
| ACC-CB7-10WP | 3.05 m (10') waterproof twisted-pair shielded cable |
| ACC-PS2 | 3-range battery-powered signal conditioner |
| ACC-PS3 | AC-powered signal conditioner |
| ACC-CB6 | 17.8 cm (7") BNCM/pigtail coaxial cable |

Visit us online for details on the above signal conditioners.

Ordering Example: ACC310, accelerometer, ACC-CB7-10, cable, ACC-PS2, signal conditioner.