

# High sensitivity, compact accelerometers

## 728A and 728T

### SPECIFICATIONS

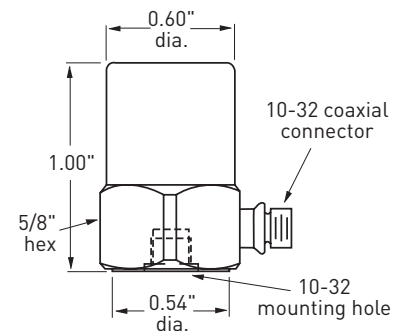
|  |                  |                                 |
|--|------------------|---------------------------------|
| <b>Sensitivity, <math>\pm 5\%</math>, 25°C</b> |                  | 500 mV/g                        |
| <b>Acceleration range</b>                      |                  | 15 g peak                       |
| <b>Amplitude nonlinearity</b>                  |                  | 1%                              |
| <b>Frequency response:</b>                     | $\pm 5\%$        | 3 - 5,000 Hz                    |
|  | $\pm 3$ dB       | 1 - 10,000 Hz                   |
| <b>Resonance frequency, mounted, nominal</b>   |                  | 24 kHz                          |
| <b>Transverse sensitivity, max</b>             |                  | 7% of axial                     |
| <b>Temperature response:</b>                   | -50°C            | -10%                            |
|  | +120°C           | -5%                             |
| <b>Power requirement:</b>                      |                  |                                 |
| Voltage source                                 |                  | 18 - 30 VDC                     |
| Current regulating diode                       |                  | 2 - 10 mA                       |
| <b>Electrical noise, equiv. g, nominal:</b>    |                  |                                 |
| Broadband                                      | 2.5 Hz to 25 kHz | 30 $\mu$ g                      |
| Spectral                                       | 10 Hz            | 5.0 $\mu$ g/ $\sqrt{\text{Hz}}$ |
|  | 100 Hz           | 0.4 $\mu$ g/ $\sqrt{\text{Hz}}$ |
|  | 1,000 Hz         | 0.1 $\mu$ g/ $\sqrt{\text{Hz}}$ |
| <b>Output impedance, max</b>                   |                  | 100 $\Omega$                    |
| <b>Bias output voltage, nominal</b>            |                  | 10 VDC                          |
| <b>Grounding:</b>                              | 728A             | case grounded                   |
|  | 728T             | base isolated                   |
| <b>Temperature range</b>                       |                  | -50° to +120°C                  |
| <b>Vibration limit</b>                         |                  | 250 g peak                      |
| <b>Shock limit</b>                             |                  | 2,500 g peak                    |
| <b>Electromagnetic sensitivity at 60 Hz</b>    |                  | 20 $\mu$ g/gauss                |
| <b>Base strain sensitivity</b>                 |                  | 0.002 g/ $\mu$ strain           |
| <b>Weight</b>                                  |                  | 44 grams                        |
| <b>Case material</b>                           |                  | stainless steel                 |
| <b>Mounting</b>                                |                  | 10-32 tapped hole               |
| <b>Output connector</b>                        |                  | 10-32 coaxial                   |
| <b>Mating connector</b>                        |                  | R1                              |
| <b>Recommended cabling</b>                     |                  | J93                             |

Accessories supplied: SF1 mounting stud; calibration data (level 3)

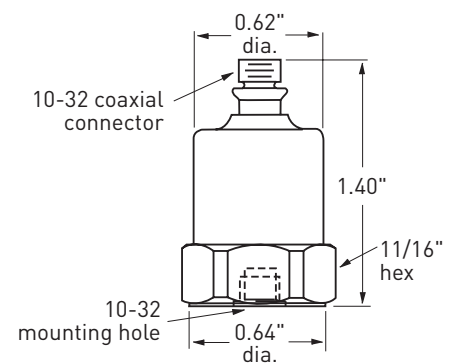


### Key features

- Wide dynamic range
- Low noise floor
- Manufactured in ISO 9001 facility



**Model 728A**



**Model 728T**



Note: Due to continuous process improvement, specifications are subject to change without notice.  
This document is cleared for public release.