

## Bi-axial accelerometer with temperature output

## Accelerometer dynamic

|                                         |                   |
|-----------------------------------------|-------------------|
| Sensitivity, ±10%, 24°C.....            | 10 mV/g           |
| Acceleration range(g) .....             | 500               |
| Amplitude nonlinearity.....             | 1%                |
| Frequency response(+/-5%).....          | 1~5000Hz          |
| Transverse sensitivity, max.....        | 5% of axial       |
| Power requirement: voltage source ..... | 18 - 30 VDC       |
| current regulating diode .....          | 2 - 10 mA         |
| Bias output voltage(typical).....       | 10 VDC            |
| Residual noise, Broadband Spectral..... | 1.2mg RMS         |
| Output impedance.....                   | <100Ω             |
| Turn-on time.....                       | <2S               |
| Operation temperature.....              | -50 to 125°C      |
| Temperature response.....               | ±10%              |
| Sensing element design.....             | PZT ceramic/shear |

## Temperature output

|                           |                 |
|---------------------------|-----------------|
| Sensing element.....      | PT1000          |
| Temperature range.....    | −50 to 200°C    |
| Temperature accuracy..... | 0.3+0.005* t °C |

## Environmental

|                                     |              |
|-------------------------------------|--------------|
| Insulation resistance(@500Vdc)..... | >200 MΩ      |
| Lighting insulation(@4000Vdc).....  | >60S         |
| Vibration limit.....                | 500 g peak   |
| Shock limit.....                    | 2,000 g peak |
| Sealing .....                       | IP68         |

## Physical

|                       |                     |
|-----------------------|---------------------|
| Weight.....           | 160 grams max.      |
| Case material.....    | 316 stainless steel |
| Mounting.....         | M16X50              |
| Output connector..... | Option              |

## Accessories

Output with Amphenol connector  
Calibration certificate

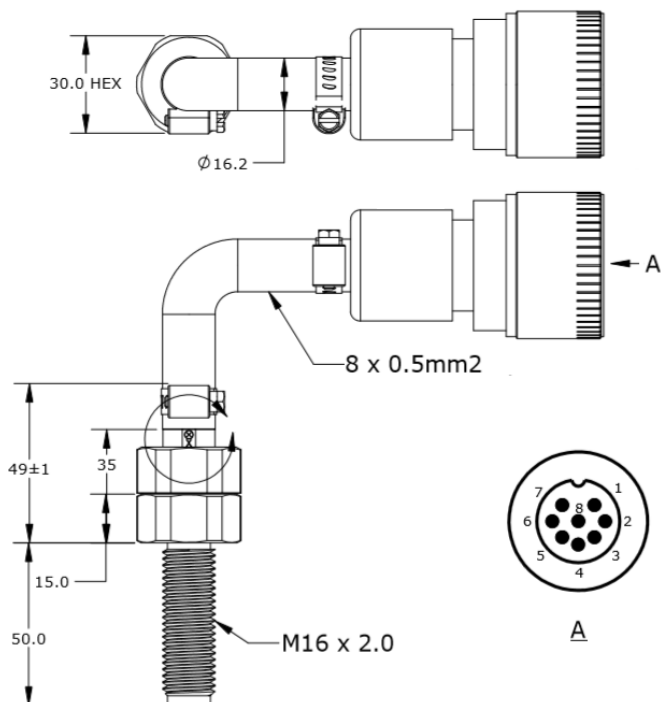


## Features

- Waterproof design
- Bi-axial measurement
- Shock duration
- Flexible alignment

## Application

- Vibration monitoring
- High speed train
- Aircraft testing



## Ordering Information

521T-500-3

Special cable length(meter)

—Range in g

- Temperature
- Model