



## Velocity Transducer TM0793V

### *Piezoelectric Velocity Transducer*

The TM0793V-K velocity transducer kit consists of one velocity transducer and one 5 meter cable. This velocity transducer kit directly interfaces with ProvibTech's signal conditioners: DTM, TR transmitters, DM dual monitors and PT580 vibration switches to measure case vibration in velocity or displacement.

### Specifications

#### *Electrical*

Sensitivity:

4.0mV/mm/sec (100mV/in/sec), @ 25°C, ±10%

Velocity Range:

5.0V pk

Amplitude Nonlinearity:

1%

Frequency Response:

2 - 7,000Hz (±3dB)

Isolation:

Fully isolated

Transverse Sensitivity:

< 5% or axial



Power Requirement:

3 - 10mA constant current

18 - 30VDC

Resonance Frequency:

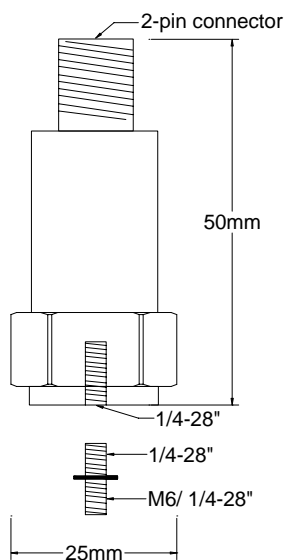
15 kHz

Bias Voltage:

10 - 14VDC

Maximum Transmission Distance:

300 meters (1,000 feet)



### *Environmental and Physical*

Temperature Range:

-50°C to +120°C

Environmental Protection:

IP67

Weight:

250 grams

Case Material:

Stainless steel

Mounting:

1/4-28UNF tapped hole

Hazardous Area Approvals:

ATEX: II 1 G, Ex ia IIC T4;

CSA: Class I, Div. 1, Groups A, B, C & D;

PCEC: Ex ia IIC T4X

GOST R: 0ExialICT4X



### Connection

A: Power (red)  
B: COM (white)

### Order Information

#### TM0793V-M

Velocity sensor with mounting screw 1/4-28" to M6x1

#### TM0793V-E

Velocity sensor with mounting screw 1/4-28" to 1/4-28"

#### TM0793V-K-M

Velocity sensor kit includes:

- ✓ TM0793V velocity sensor
- ✓ Mounting screw (1/4-28" to M6x1)
- ✓ TM0702-05

#### TM0793V-K-E

Velocity sensor kit includes:

- ✓ TM0793V velocity sensor
- ✓ Mounting screw (1/4-28" to 1/4-28")
- ✓ TM0702-05

### Accessories:

(Standard cable length is 5 meters. XX = 05)



**TM0702-XX:** Aluminum MIL connector with XX meters cable, 6.35mm diameter. < 120°C (250°F)



**TM0703-XX:** Seal tight boot connector with XX meters cable, 6.35mm diameter. < 120°C (250°F)



**TM0704-XX:** Stainless steel MIL connector with armored XX meters cable, 4.83mm diameter. < 150°C (300°F) , Maximum Length is 10 meters.



**TM0705-XX:** Cornered MIL connector with XX meters cable, 6.35mm diameter. < 120°C (250°F) , Maximum Length is 10 meters.

**TM0710:** Mounting screw 1/4-28" - M6x1

**TM0711:** Mounting screw 1/4-28" - 1/4-28"

**TM0712:** Mounting screw 1/4-28" - M8

**TM0713:** Mounting screw 1/4-28" - M10