

## Velocity Transducer TM0793V

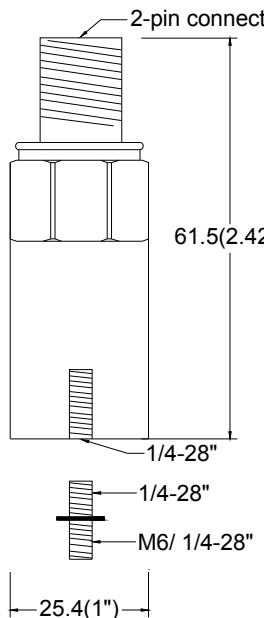
### Piezoelectric Velocity Transducer

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

### Specifications

#### Electrical

<b>Sensitivity:</b>	4.0mV/mm/sec (100mV/in/sec), @ 25°C, ±10%
<b>Velocity Range:</b>	5.0V pk
<b>Amplitude Nonlinearity:</b>	1%
<b>Frequency Response:</b>	2 - 7,000Hz (±3dB)
<b>Isolation:</b>	Fully isolated
<b>Transverse Sensitivity:</b>	< 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: I.S. Class I, Div. 1, Groups A, B, C & D  
Exia IIC T4

Class I, Div.2, Groups A, B, C, D

Non- Incendive

PCEC: Ex ia IIC T4X

\*\*TR CU: 0Ex ia IIC T4 X

№ TC RU C-US.ГБ05.B.00477

NANIO CCVE

#### 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. Operating temperature range goes up to 120°C (250°F)



**TM0703-XX:** Seal tight boot connector with XX meters cable, 6.35mm diameter. Operating temperature range goes up to 120°C (250°F)



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

**TM0704-XX-F:** Stainless steel MIL connector with Armor with FEP jacket XX meters cable.



**TM0705-XX:** Cornered MIL connector with armored XX meters cable, 4.83mm diameter. Operating temperature range goes up to 120°C (250°F) , Maximum Length is 10 meters.

**TM0705-XX-F:** Cornered MIL connector with Armor with FEP jacket XX meters cable.

**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

**TM0793V-M-S**

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

**TM0793V-E-S**

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

Note: \*\* TR CU certificate is pending