

TRANTECH TTVGV VIBRATION SENSOR

Specification

Test ambient @23°C.80Hz. 24V DC

Performance		
Parameter List	Parameter	Unit
Measurement Range (RMS)	0 ~ 20 (Others Available)	mm/sec
Sensitivity +- 5%	0.8	mA/mms ⁻¹
Frequency Response ±5%	10 ~ 1000	Hz
Frequency Response ±3dB	3 ~ 1500	Hz
Max Transverse Sensitivity	<5	%
Amplitude Linerity	≤2	%
Resolution	0.01	mm/sec
Maximum acceleration (Peak)	10	g

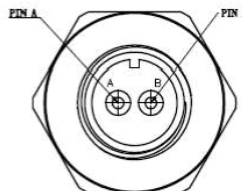
Electric Performance		
Supply Voltage (Vs)	15 ~ 30	V DC
Load Impedance	50 (Vs-12)	Ω
Electric Case Insulation	≤10 ⁵	Ω
Dielectric Voltage withstand	≤1000	V AC

Environment Performance		
Shock Limit (Peak)	2000	g
Operation Temperature	-40 ~ +85	°C

Physical Parameter		
Case Material	304 Stainless Steel	
Weight	130	g
Mounting Screw	1/4-28 (Female - m8 male adaptor supplied)	
Piezoelectric Materials	PZT-5	
Output	Military 2-pin MIL-C-5015 (Mating connector + 3m cable supplied)	
Transmission Distance	≥100	m
Dimension	29*29*59	mm

Accessories		
Certificate	Calibration Parameters	g
1/4-28 convert M8	1	piece

Other measurement range's and operation temperature -40 ~ 120°C available

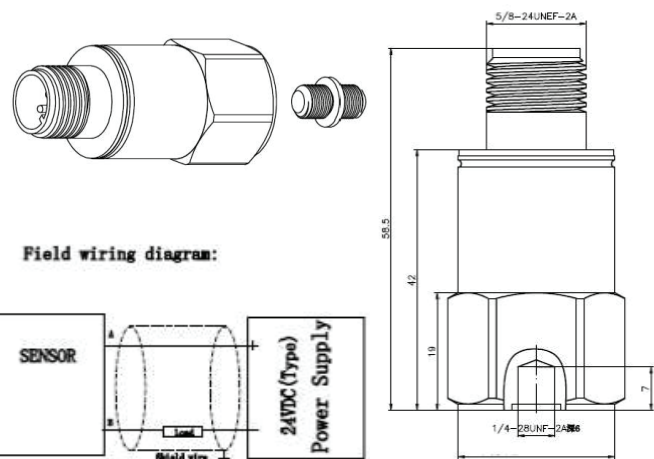


Applications

- Industrial machine vibration monitoring
- Electrical Motor and bearing vibration monitoring
- General purpose system / machine vibration measurement

Description

The Trantech TTVGV is a general purpose top-entry velocity / Vibration transducer with 4-20mA DC output. All stainless steel body construction, makes the sensor extremely durable for continuous vibration monitoring in harsh environments. Internal electronics are isolated to minimise noise. The housing and electrical connector provides for a sealed IP67 rated sensor. The sensor has an industry standard two-wire 4-20mA output proportional to the sensor measuring range, this output can connect directly to a PLC, DCS and other industrial controllers.



Field wiring diagram:

