

## Transmitter for vibration velocity

### Vibration transmitter ST5484E



#### Product description

Reliable machine monitoring (e.g. housing vibrations caused by imbalances) is ensured by a highly sensitive, low-noise and robust sensor technology. The M8, M10,  $\frac{1}{4}$ ",  $\frac{3}{8}$ " or  $\frac{1}{2}$ " screw connections of the sensor allow machine-specific and reliable mounting, which is also possible in hard-to-reach places.

Continuous machine monitoring is performed via the integrated 4 ... 20 mA current interface for central monitoring.

The raw signal output ('Dynamic Signal') is available for 'real-time' evaluations or diagnosis of the vibration signals.

#### Applications

- Fans and cooling towers
- Drives
- Compressors and large pumps
- Industrial mills

#### Benefits

- Compact, highly accurate and robust vibration transmitter for machine and plant monitoring
- Extensive approvals for use in the EX area

Features

- High-precision velocity transmitter (seismic, all motion axes)
- 4...20 mA output signal (loop powered)
- Raw signal output for diagnostics (optional)
- Versions with mil-connector, terminal block or open cable ends
- Robust and corrosion resistant stainless steel housing (Ex d approval with factory fitted 8200 thermowell for versions with terminal block or open cable ends)
- Individual configurations ex works: Measuring range, mounting, housing material, approval, cable connection, band filter
- Accessories: Connecting cables with Mil-plugs, TAGs, mounting adapter, protection tube (8200) and various reducers
- Div. approvals

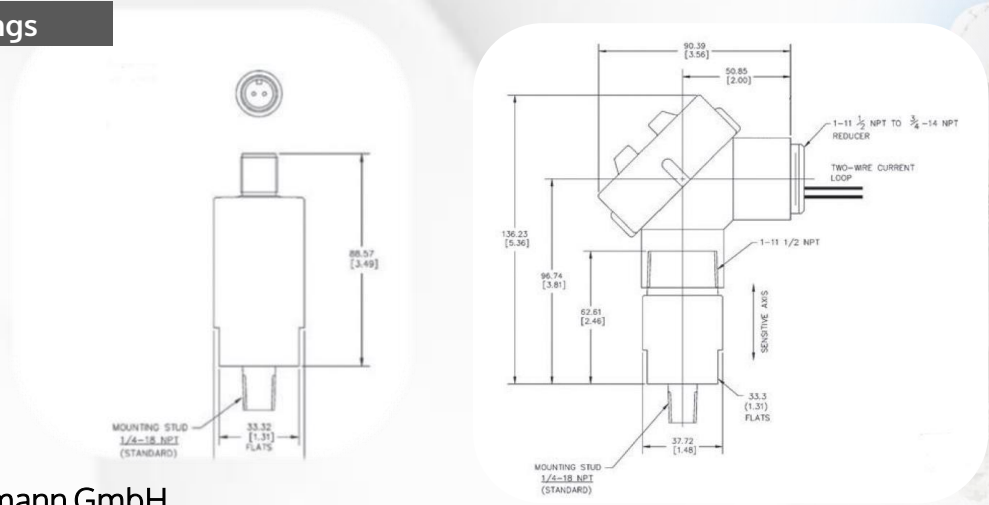


Technical data

Charakteristics	Technical values
Vibration transducer	Piezo-electric, with signal integrator
Frequency range (-3dB)	2 Hz ... 1500 Hz <sup>1.)</sup>
Measuring range	5.0 in/sec (127 mm/s) <sup>2.)</sup>
Humidity (max.)	100 % (condensing) <sup>3.)</sup>
High protection class	IP67 <sup>3.)</sup>
Housing material	Stainless steel 303; 316
Operating temperature range	-40°C ... +100°C
Raw signal output	100 mV/g (10.2 mV / s <sup>2.)</sup> 4.)
Signal output	4 ...20 mA (loop-powered)
Voltage	11,0 VDC ... 29,6 VDC
Accuracy	±2,5% (in the filter area)
Dimensions	ca. Ø 38 mm, l = 89 mm <sup>3.)</sup>
Weight	ca. 0.36kg

1.) standard filters - individual band filters available  
2.) individual measuring ranges (pk, RMS) available  
3.) valid for MIL connectors  
4.) up to 5m cable length

Drawings



Bahrman GmbH

Max-Planck-Str. 34 · 71116 Gärtringen · Germany  
Fon +49 7034 270 459-0

info@bahrmanngmbh.de  
www.bahrmanngmbh.de

