330525 Velomitor XA Piezo-velocity Sensor

Datasheet

Bently Nevada Machinery Condition Monitoring

141633 Rev. M



Description

The Velomitor XA (eXtended Application) Sensor is a ruggedized version of Bently Nevada's 330500 Velomitor Sensor. Its 316L stainless steel case and unique, weatherproof connector and cable assembly permit mounting without a housing. The Velomitor XA Sensor cable assembly is suitable for use in moist environments, and the Velomitor XA Sensor design meets the requirements of IP-65 and NEMA 4X dust ratings when properly installed with a mating extension cable.

If you are measuring a machine housing to determine where to install transducers, consider what kinds of data you need to obtain. Most common machine malfunctions (imbalance, misalignment, and so forth) originate at the rotor and cause a change in rotor vibration. The location you select on the housing must accurately conduct rotor vibration to the transducer.

Install the transducer carefully. If you don't, the transducer may not accurately detect vibrations and can transmit invalid data. Bently Nevada provides engineering services to accurately measure machine housings and to install transducers.

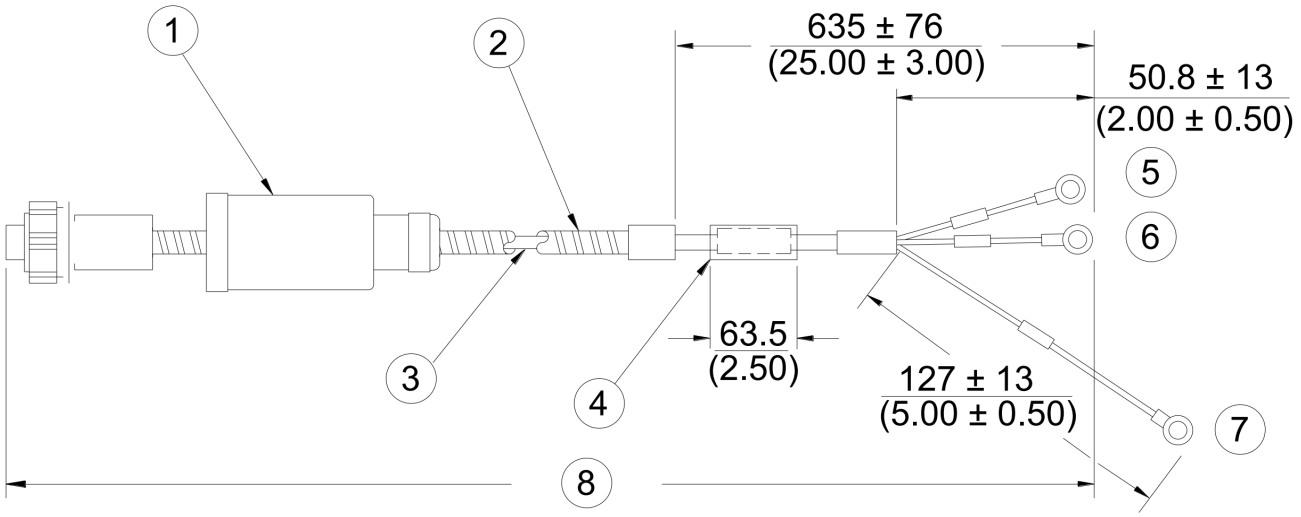
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Mounting Torque	45 N-m (33 ft-lb) maximum
Polarity	Pin A goes positive with respect to pin B when the sensor case motion is toward the connector.
Cable Bend Radius	1.5-in minimum bend radius.

Operating the unit outside the specified limits may result in false readings or loss of machine monitoring.

Before installing and using this product, read the 330500, 330525, and 330530 Velomitor Sensors User Guide (document 100076).

Graphs and Figures



1. Splash-resistant boot with clamps	5. “A” (white)
2. Stainless steel armor over cable	6. “B” (black)
3. 0.382 mm² (22 AWG)	7. “SHLD” (green)
4. Clear shrink tubing	8. Overall length ± 200 (7.8)

Figure 1: Dimensions for 106765 Cable

Dimensions are in millimeters (inches)