

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.



Ordering Information

 For the detailed listing of country and product specific approvals, refer to the *Approvals Quick Reference Guide* (108M1756) available from Bently.com.

330525-AA

A: Agency Approval Option

0 0	None Required
0 1	CSA/NRTL/C
0 2	SIRA/CENELEC

106765-AA Interconnect Cable

A: Length (in meters)

Minimum length	1 meter (3.3 feet)
Maximum length	25 meters (82 feet)

Order in increments of 3 meters.

Terminal Housing

Terminal Housing for terminating Velomitor XA Sensor cable to bulk cable listed above. The Terminal Housing provides local connection of the Velomitor XA Sensor signal wires to the monitor field wiring. Each Terminal Housing can accommodate up to 2 Velomitor XA Sensor Cables.

106769-AA

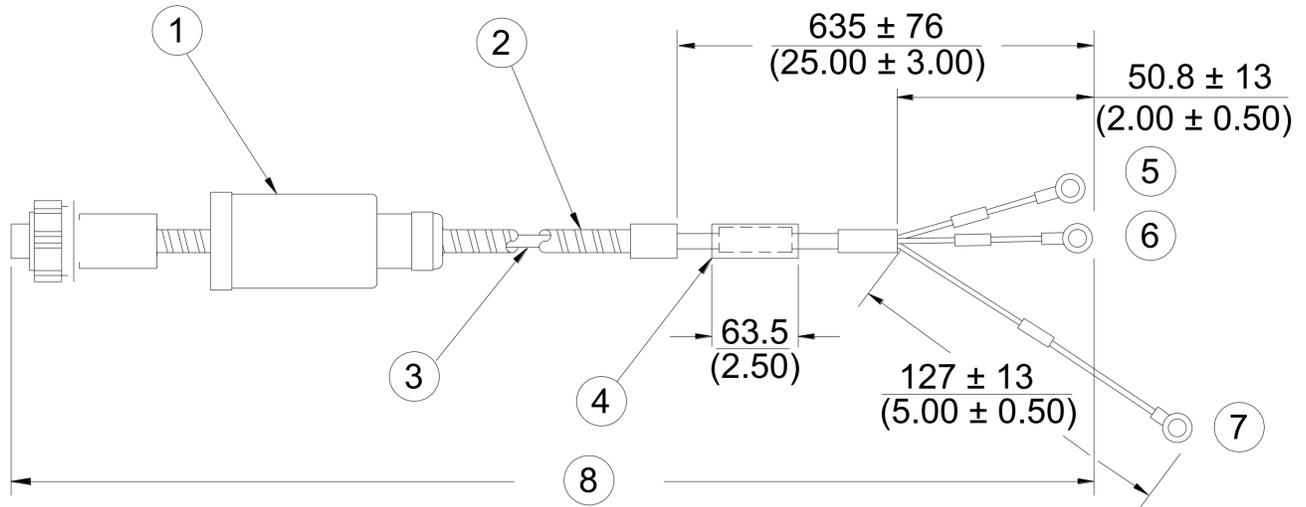
A: Conduit Fitting Option

0 0	No fittings supplied
0 1	One ¼ NPT fitting
0 2	Two ¼ NPT fittings

Accessories

100076	330500/330525 Velomitor Sensor and Velomitor XA Sensor User Guide
02173007	Bulk cable; two-conductor twisted, shielded. 22 AWG cable without connectors or terminal lugs. Specify length in feet.
103537-01	Terminal Mounting Block. Provides simple field wiring connection and can be mounted inside any standard Proximitor Sensor housing. One terminal mounting block is needed for each Velomitor XA Sensor connection.
03839144	Splash-resistant boot cover for interconnect cable assembly. The boot is made from fluorosilicone elastomer. Boot color is blue.
03839142	Bottom clamp used to secure the boot to the Velomitor XA Sensor case.
03839143	Top clamp used to secure the boot to the interconnect cable assembly.

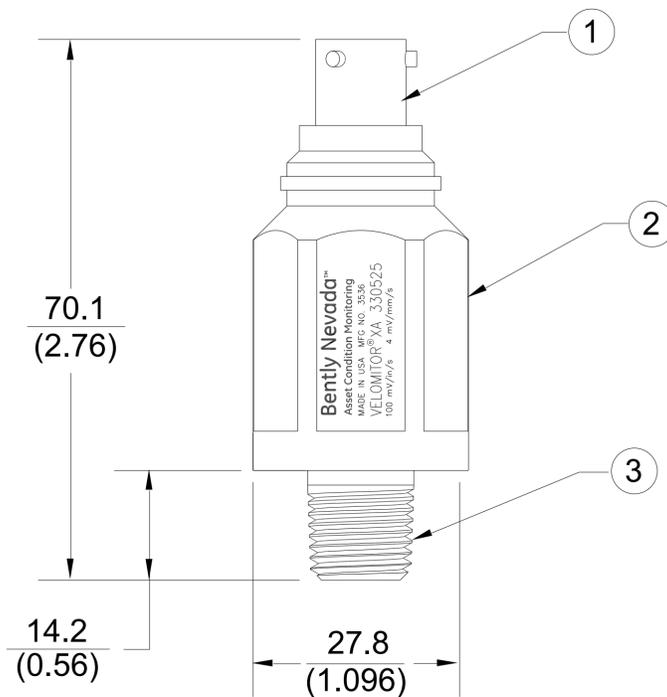
Graphs and Figures



1. Splash-resistant boot with clamps	5. "A" (white)
2. Stainless steel armor over cable	6. "B" (black)
3. 0.382 mm ² (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)



- 1. MIL-C-26482 receptacle
- 2. 25.4 (100) hexagonal
- 3. 1/4-18 NPT

Figure 2: Dimensions for 330525 Velomitor XA Piezo-Sensor

Dimensions are in millimeters (inches)