

– 55 °C to + 121 °C (– 67 °F to + 250 °F).

Shock Survivability

5000 g peak, maximum

Relative Humidity

To 100% non-submerged; case is hermetically-sealed.

Base Strain Sensitivity

0.005 in/s/μstrain.

Magnetic Field Susceptibility

<51 μin/s/gauss (50 gauss, 50-60Hz).

Physical

Weight

142 grams (5.0 oz), typical.

Diameter

25.3 mm (0.995 in).

Height

63.2 mm (2.49 in).

Case Material

316L stainless steel.

Connector

2-pin Mil-C-5015 hermetically-sealed, 304 stainless steel shell.

Mounting Torque

46 kg cm (40 in-lb) max.

Polarity

Pin A goes positive with respect to pin B when the sensor case motion is toward the connector.

Ordering Information

Velomitor Piezo-velocity Sensor

330500-AXX-BXX

A: Mounting Thread Adapter Option

- 00** No adapter
- 01** 1/2 - 20 UNF
- 02** M8 x 1
- 03** 1/4 - 28 UNF
- 04** 1/4 - 20 UNC
- 05** Unavailable for 330500.
For 1/4-18 NPT mounting,
order 330525.
- 06** 5/8 - 18 UNF
- 07** 3/8 - 16 UNC
- 08** 1/2 - 13 UNC

B: Agency Approval Option

- 00** Not required
- 01** CSA/US/C
- 02** ATEX (European)
- 04** Multiple approvals (CSA, ATEX, Brazil)

Interconnect Cables

AXX

A: Cable length Option in feet

For the cables listed below, order in increments of 1.0 ft (305 mm).

Example: 0 9 = 9 ft

1 2 = 12 ft

9571

2-conductor twisted, shielded 22 AWG cable with 2-socket moisture-resistant female connector at one end, terminal lugs at the other end.

Used with monitors. Not for use with 21128 Velocity Transducer Housing.

Minimum length: 2.0 ft (0.6 m)

Maximum length: 99 ft (30 m)

84661

2-conductor twisted, shielded 22 AWG armored cable with 2-socket moisture-resistant female

connector at one end, terminal lugs at the other end.

Used with monitors. Not for use with 21128 Velocity Transducer Housing.

Minimum length: 3.0 ft (0.9 m)

Maximum length: 96 ft (29 m).

89477

2-conductor 18 AWG twisted, shielded cable with right angle 2-socket plug at one end, terminal lugs at the other end.

Used with monitors and with 21128 Velocity Transducer Housing.

Minimum length: 2.0 ft (0.6 m)

Maximum length: 99 ft (30 m).

125065

2-conductor 18 AWG twisted, shielded cable with 2-socket plug and fluorosilicone elastomer boot at one end, terminal lugs at the other.

Used with monitors. Not for use with 21128 Velocity Transducer Housing.

Minimum length: 2.0 ft (0.6 m)

Maximum length: 99 ft (30 m).

Note: When using the 21128 housing, cable part number 89477-AA is necessary to connect the Velomitor Sensor to a monitor.

Velocity Transducer Housing – CENELEC approved 107770-AXX-BXX

This version is a combination of the 330500 Velomitor Sensor and a 21128 Housing **pre-installed** at the factory. It is also rated for CENELEC Zone 1, Group IIC hazardous area applications.

A: Mounting Thread Option

- 01** Unthreaded
- 02** 3/4 - 14 NPT
- 03** 1/2 - 14 NPT
- 04** 1/2 - 14 BSP

B: Cable Exit Fitting Option

- 01** 1/2 - 14 NPT plug
- 02** 1/2 - 14 NPT explosion-proof
- 03** 1/2 - 14 NPT explosion-proof with cable gland seal

Velocity Transducer Housing Assembly 21128-AXX-BXX

A: Mounting Thread Option

- 01** Unthreaded
- 02** 3/4 - 14 NPT
- 03** 1/2 - 14 NPT
- 04** 1/2 - 12 BSP

B: Cable Exit Fitting Option

- 01** 1/2 - 14 NPT plug
- 02** 1/2 - 14 NPT explosion-proof
- 03** 1/2 - 14 NPT explosion-proof with cable gland seal

Accessories		89412-01	
100076-01			Individual 1/4 - 20 UNC mounting adapter.
	330500 Velomitor Sensor and Velomitor XA Sensor Manual.	89413-01	
02173006			Individual 1/4 - 18 NPT mounting adapter. Spares only. For new installations, order 330525 velometer.
	Bulk cable; 2 conductor 18 AWG twisted, shielded cable without connectors or terminal lugs. Specify number of feet.		
46000-01		04300015	
	Magnetic Base for temporary mounting of Velomitor Sensors. Used with 1/4 - 28 UNF mounting thread adapters.	161191	Individual 5/8 - 18 UNF mounting adapter.
46122-01			Individual 1/2 - 13 UNC mounting adapter.
	Quick Connect for semi-permanent mounting of Velomitor Sensors. Used with 1/2 - 20 UNF mounting thread adapters.		Note: The Velomitor Sensor is shipped with an adapter. Individual adapters are available as spares.
89409-01		101212-01	
	Individual 1/2 - 20 UNF mounting adapter.	123135-01	Velomitor Sensor connector kit. Used with housings and retrofits.
89410-01			Velomitor Sensor Power Module.
	Individual M8 x 1 mounting adapter.		
89411-01			
	Individual 1/4 - 28 UNF mounting adapter.		