

Shock Survivability	– 55 °C to + 121 °C (– 67 °F to + 250 °F).
Relative Humidity	5000 g peak, maximum
Base Strain Sensitivity	To 100% non-submerged; case is hermetically-sealed.
Magnetic Field Susceptibility	0.005 in/s/µstrain.
	<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

### Velomotor Piezo-velocity Sensor

330500-AXX-BXX

#### A: Mounting Thread Adapter Option

0 0	No adapter
0 1	1/2 - 20 UNF
0 2	M8 x 1
0 3	1/4 - 28 UNF
0 4	1/4 - 20 UNC
0 5	Unavailable for 330500. For 1/4-18 NPT mounting, order 330525.
0 6	5/8 - 18 UNF
0 7	3/8 - 16 UNC
0 8	1/2 - 13 UNC

#### B: Agency Approval Option

0 0	Not required
0 1	CSA/US/C
0 2	ATEX (European)
0 4	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).

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

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#### Velocity Transducer Housing – CENELEC approved

**107770-AXX-BXX**

This version is a combination of the 330500 Velomotor 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

<b>01</b>	Unthreaded
<b>02</b>	3/4 - 14 NPT
<b>03</b>	1/2 - 14 NPT
<b>04</b>	1/2 - 14 BSP

**B:** Cable Exit Fitting Option

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

**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).

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#### Velocity Transducer Housing Assembly

**21128-AXX-BXX**

**A:** Mounting Thread Option

<b>01</b>	Unthreaded
<b>02</b>	3/4 - 14 NPT
<b>03</b>	1/2 - 14 NPT
<b>04</b>	1/2 - 12 BSP

**B:** Cable Exit Fitting Option

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

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