9200 and 74712 Seismoprobe Velocity Transducers

Datasheet

Bently Nevada Machinery Condition Monitoring

141626 Rev. P

Description

Bently Nevada Seismoprobe Velocity Transducer Systems are designed to measure absolute (relative to free space) bearing housing, casing, or structural vibration. The two-wire systems consist of a transducer and appropriate cable.

The Seismoprobe family of velocity transducers is a two-wire design that uses moving-coil technology. It provides a voltage output directly proportional to the transducer's vibration velocity.

Moving-coil transducers are less sensitive to impact or impulsive excitation than solid-state velocity transducers, which are inherently accelerometers with embedded integration electronics.

Moving-coil transducers are less sensitive to impact or impulsive excitation and can represent a good choice for certain applications. Because they don't require external power, they are convenient for portable measurement applications.

For most installations, Bently Nevada's Velomitor family of velocity transducers, which incorporate solid-state technology, provide improved performance and ruggedness for casing velocity measurement applications.

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Mechanical

Case and Adapter Material	Anodized aluminum A204
Gasket Material	9200: Neoprene 74712: Silicone
Connector Material	
Top and Side Mount Options	Cadmium-plated aluminum, neoprene, and silver-plated copper
Terminal Block Option	Polyphenylene Sulfide with nickel-plated copper contacts.
Mounting Torque	
½-20, ¼-20, ¼-28, 5/8-18, or M10x1 mounting base options:	5.6 Nm (50 in lb)
8-32 threaded studs	1.41 Nm (12.5 in lb)

Physical

Height	102 mm (4 in) typical (depending on connector option).
Diameter	41 mm (1.6 in) typical.
Weight	9200 = 300 grams (10.5 ounces) typical. 74712 = 480 grams (17 ounces) typical.
Seismoprobe Velocity Transducer orientation	All Seismoprobe Velocity Transducers are specified for mounting orientation, see "Graphs and Figures" on page 1.

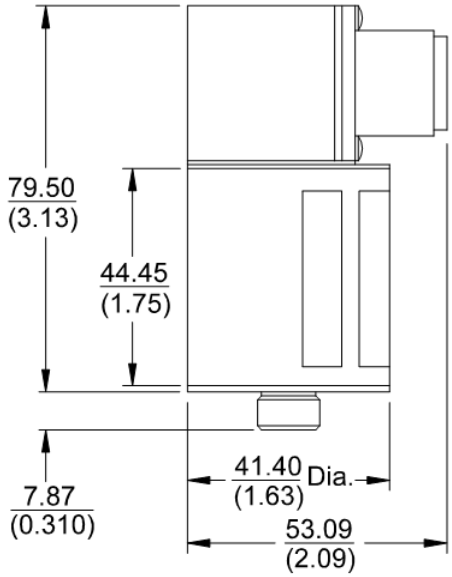

Figure 5: Side Mounted Connector

(9200 Option B-02 or 74712 Option C–04)

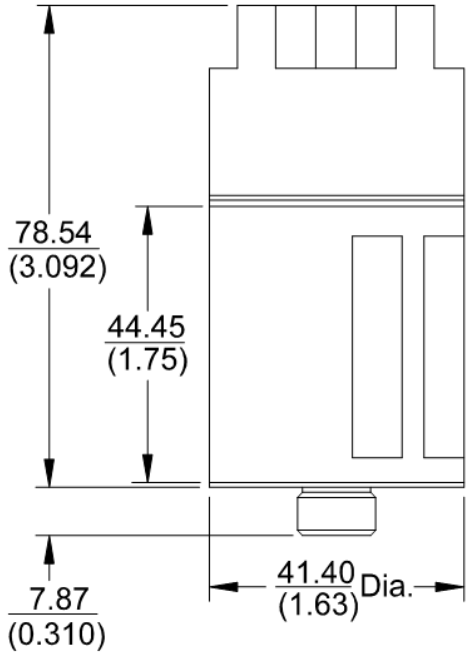

Figure 6: Terminal Block Connector

(9200 Option B-05 or 74712 Option C–03)

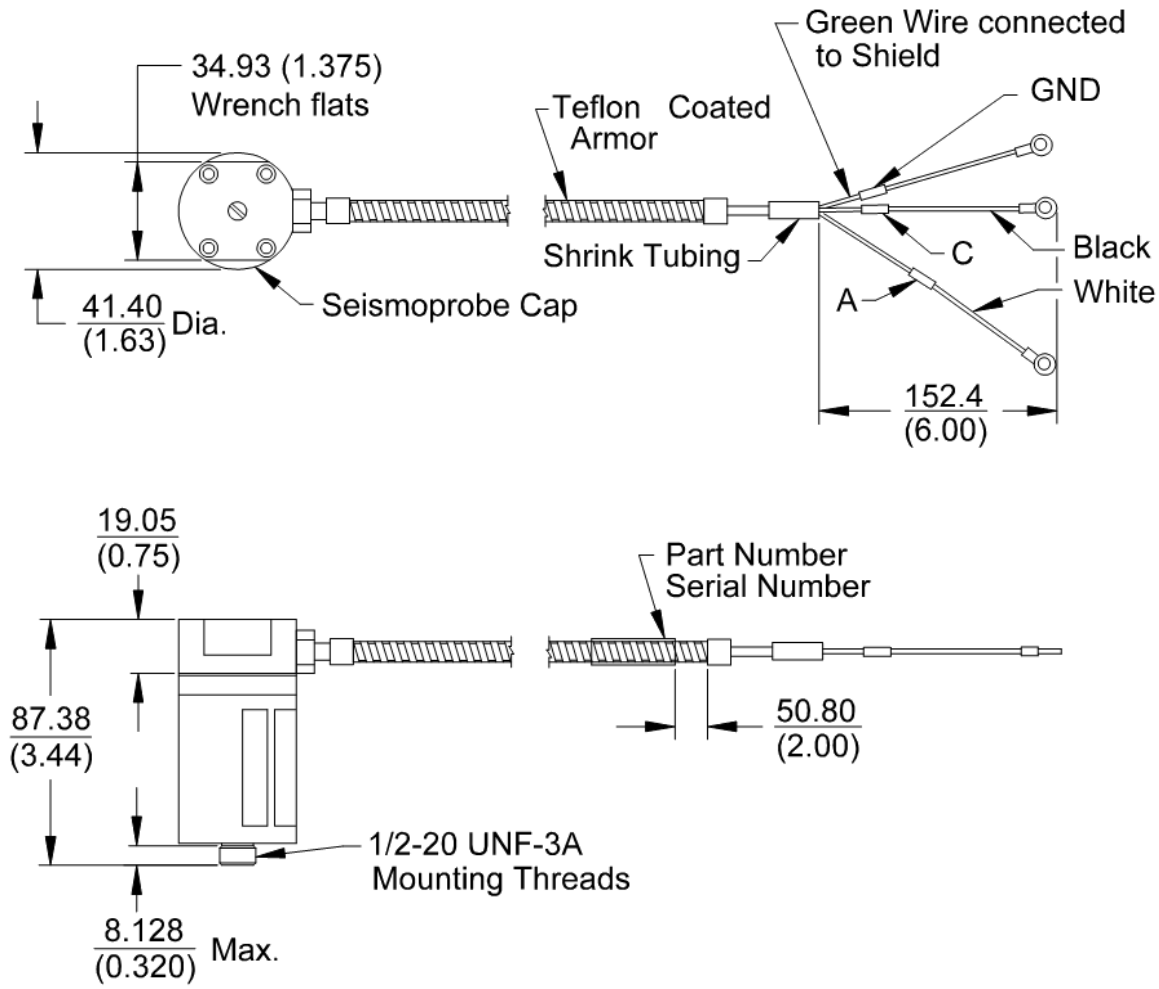

Figure 7: 9200 Standard Integral Cable Options B-10 through B–50

Integral cable is not available with the 74712 High Temperature Seismoprobe.