

# Bently Nevada 74712-06-05-04-01 Manual

|                |                                              |
|----------------|----------------------------------------------|
| Brand          | Bently Nevada                                |
| Product Series | 3300                                         |
| Product Type   | 74712 = High-temperature Two-wire Transducer |

## Description

74712-06-05-04-01 | Bently Nevada | High-temperature Two-wire Transducer

Manufacturer : Bently Nevada

Product No. : 74712-06-05-04-01

Product type : 74712 = High-temperature Two-wire Transducer

Made in U.S.A

Transducer Mounting Angle/Minimum Operating Frequency Option : 06 = 0  $\pm$ 100, 10 Hz (600 cpm)

Mounting Base Option : 05 = No base; 1/2-in-20 UNF-3A stud

Connector Option : 04 = Side mount

Agency Approval Option : 01 = CSA

Height : 82 mm (3.2 in)

Height : 102 mm (4 in) typical (depends on connector option).

Diameter : 41 mm (1.6 in) typical.

Operating and Storage Temperature :-29°C to +204°C (-20°F to +400°F).

### Electrical

Sensitivity : 20 mV/mm/s (500 mV/in/s),  $\pm$ 5% when properly terminated and oriented at the angle of calibration.

Calibration Load : 10 k $\Omega$  Terminal "A" to "B"

Output taken across pins "A" and "B"

Sensitivity Temperature Coefficient : 0.2%/°C

Dynamic operating range : 2.54 mm (0.100 in) peak to peak maximum displacement.

Velocity Range : 25 mm/s (1 in/s) (at +22 °C of casing vibration at 100 Hz with a 10 k $\Omega$  load.

Coil Resistance : 1.25 k $\Omega$   $\pm$ 5%

Locked Coil Inductance : 125 mH, typical

Amplitude Linearity :  $\pm$ 5% from 0.01 to 5.0 in/s  
(0.254 to 127 mm/s) at 100Hz (6000CPM)

Shock resistance : Withstands 50 g peak maximum acceleration along non-sensitive axis.

Transverse sensitivity :  $\pm 10\%$  maximum of the sensitive axis sensitivity at 100 Hz and 1.0 in/s (2.54 cm/s)

Polarity of output signal : Pin A goes positive with respect to Pin B when the transducer case velocity is towards the connector.

Lead wire length : 305 meters (1,000 feet) maximum between Seismoprobe Velocity Transducer and 3300 or Bently Nevada™ 3500 Monitor. Consult manual for frequency roll-off at longer lengths.

#### Relative

#### Humidity

To 95%, noncondensing.

100%, non-submerged, when  
ordered with integral cable.

#### Maximum Use

#### Altitude

2000 m (6,561 ft) above sea  
level.

#### Mounting Torque

1/2-20, 1/4-

20, 1/4-28,

5/8-18, or

M10X1

mounting

base

options:

5.6 N•m (50 in•lb)

8-32

threaded

studs:

1.41 N•m (12.5 in•lb)

[www.AutoDCSTech.com](http://www.AutoDCSTech.com)

#### Hazardous Area Approvals

#### cNRTLus

Class I, Division 1, Groups A, B, C and D T6;

Class II, Division 1, Groups E, F and G;

Class III:

Ex ia IIC T6 Ga;

Class I, Zone 0, AEx ia IIC T6 Ga;

Ex ec IIC T6 Gc;

Class I, Zone 2, AEx ex IIC T6 Gc

For Ex/AEx ia:

Ui = 28 VDC

Ii = 16 mA

Pi = 1.0 W

Ci = 0

L/Ri = 110  $\mu$ H/ $\Omega$

Li = 131.25 mH

For EX/AEx ec:

V = 24 VDC

I = 24 mA