

Bently Nevada Service Manual

26530-12-05-03-018-112-24-03-00

1. Description

Bently Nevada 26530-12-05-03-018-112-24-03-00 Dual Probe Transducer System

3. Product Information

Bently Nevada 26530-12-05-03-018-112-24-03-00 Dual Probe Transducer System

Description

The Dual Probe Transducer System consists of a proximity probe and a seismic or Velomitor* transducer installed at approximately the same point in a common transducer housing. This transducer system is capable of making four separate measurements:

Shaft relative radial position (displacement) relative to the probe mounting location, measured by the proximity probe;

Shaft relative radial dynamic motion (vibration) relative to the probe mounting location, measured by the proximity probe;

Machine casing absolute vibration measured by the seismic vibration; and

Shaft absolute motion represented by the summation of the seismic signal (after integration to displacement) and the shaft relative displacement.

The Dual Probe Transducer System provides the best measurement data when transducer housing is mounted on a portion of the bearing housing or cover that is mechanically referenced to the bearing.

For complete machinery monitoring diagnostics using orbit analysis and shaft centerline position information, two Dual Probe assemblies in an X-Y configuration are required per radial bearing.

A probe support/oil sleeve is available as an option. It protects the transducer system from oil and provides additional support for the probe sleeve.

Temperature Range

3300 XL 8 mm

Probe:

-51°C to +177°C (-60°F to +351°F)

Note: Exposing the 3300 XL

probe to temperatures below -

34°C (-30°F) may cause

premature failure of the probe

pressure seal.

70000-series

Radiation

Resistant 300

Probe

-29°C to +150°C (-20°F to +302°F)

Standard 2-wire

Seismoprobe:

-29°C to +121°C (-20°F to +250°F)

High temperature 2-

wire Seismoprobe:

-29°C to +204°C (-20°F to +400°F)

Velomitor transducer:

-55°C to +121°C (-67°F to +250°F)

26530-AXX-BXX-CXX-DXXX-EXXX-FXX-GXX-HXX Ordering Information

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A: Proximity Probe Option

12□3300 XL 8 mm Probe

B: Probe Lead Length Option

0 5 =0.5 metre

C: Adapter Thread Option

0 3 =3/4-14 NPT

D: Adapter Length Option

018=1.8 in

Order in increments of 0.1 in

(2.5 mm).

Minimum length: 1.7 in = 0 1 7

(43 mm) [1.8 in if adapter thread

option is C: -03]

Maximum length: 2.0 in = 0 2 0

(51 mm)

E: Probe Penetration Option

Order in increments of 0.1 in

(2.5 mm).

Minimum length: 1.0 in = 0 1 0

(25 mm)

For 0.5 metre probe cable on

3300 Probes:

Maximum length of "D" + "E" is

15.6 in = 1 5 6 (396 mm).

For 1.0 metre probe cable:

Maximum length of "D" + "E" is

31.0 in = 3 1 0 (787 mm).

112 = 11.2in

Note: For penetration lengths between

1.0 and 2.0 inches, counter bore may be

required in machine case to reduce probe

side view and/or rear view effects. 1.0-1.9

inch penetration lengths not available with

3300 XL 11mm Probes.

F: Velocity Transducer Option

2 4 = Velomitor Sensor

G: Fittings Option

0 3 = One ¾-14 NPT plug, one ¾-

H: Probe Support/Oil Seal Option

0 0 = Not required

