

Bently Nevada 146054 146055 Series Service Manual

330750-80-05

1. Description

330750-80-05

3. Product Information

330750-80-05 | Bently Nevada | High Temperature Velomitor System

Manufacturer : Bently Nevada

Product No. : 330750-80-05

Product type : High Temperature Velomitor System

Made in U.S.A

Ordering Information

330750-AA-BB

Length : 80 = 8 metres

Approvals : 05 = Multiple Approvals (CSA, ATEX, and IECEx).

Case material : 300 series stainless steel

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

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

Electrical

Sensitivity 5.7 mV/mm/s (145 mV/in/s)

±5%

Frequency

Response

15 to 2000 Hz (900 to 120,000

cpm) ± 3.0 dB;

20 to 1000 Hz (1,200 to 60,000

cpm) ± 0.9 dB

Transient

Temperature

Sensitivity

0.0762 mm/s/°C (0.003

in/s/°C), typical, as defined

in ISO 5347-18:1993(E)

Amplitude

Range

635 mm/s (25 in/s) peak

below 680 Hz.

2940 m/s² (300 g) peak

above 680 Hz.

Vibration at frequencies

above 2 kHz decreases this

range.

Transverse

Sensitivity Less than 5% of Sensitivity

Amplitude

Linearity

±2% to 152 mm/s (6 in/s)

peak

Mounted

Resonant

Frequency

Greater than 5 kHz

Output Bias

Voltage -12 ±2.0 VDC

Broadband

Noise Floor

(15Hz to 2kHz)

0.127 mm/s (0.005 in/s) rms

nominal

Grounding Case Isolated

Maximum

Cable Length

305 meters (1000 feet) with

no degradation of signal.

Environmental Limits

Operating and Storage Temperature Range

Sensing Head

Maximum mounted surface

temperature -55°C to

+400°C (-67°F to +752°F)

Integral

Hardline Cable

-55°C to +400°C

(-67°F to +752°F)

Electronics -55°C to +121°C

(-67°F to +250°F)

Shock

Survivability 24,535 m/s² (2500 g) peak

Relative

Humidity

To 100% non-submerged;

case is hermetically sealed.

Maximum Use

Altitude

2000 meters (6561 ft) above

sea level

Outdoor Use

Standard installation for

these sensors is in a

protected enclosure with

wiring protected in conduit.

Splash boots can be added

for additional protection if

needed by customer's

requirements.

Physical

Weight (typical)

8 meters 1,111 grams (2.45 lb)

Case 300 series stainless steel

Connector

2-pin Mil-C-5015 receptacle,

hermetically-sealed, 304

stainless steel shell.

Polarity

When the applied velocity is

from the base to the top of

the transducer, Pin A

becomes positive with

respect to Pin B.

Bend Radius Minimum bend radius of

51mm (2.0in)

Compliance and Certifications

FCC

This device complies with part 15 of the

FCC Rules. Operation is subject to the

following two conditions:

I This device may not cause harmful interference.

I This device must accept any

interference received, including

interference that may cause

undesired operation.

EMC

EMC Directive 2014/30/EU

RoHS
RoHS Directive 2011/65/EU
ATEX
60079-01
60079-07
60079-11
60079-15
ATEX Directive 2014/34/EU
Temperature
Class Temperature Range
T4 -40°C to +100°C
T1 -40°C to +400°C

