

Bently Nevada 200155-08-05 Manual

Brand	Bently Nevada
Product Series	200150&200151
Product Type	Low Frequency Trendmaster Pro

Description

"Manufacturer : Bently Nevada

Product No. : 200155-08-05

Product Type : Low Frequency Trendmaster Pro
Accelerometer

Made in U.S.A

MOunting stud option : 08 =3/8-24 to 1/2 NPT 1 inch hex stud
stud

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

Accelerometer 200155

Used with ProTIM Option Low Frequency Accelerationto-Velocity channel type (-05)

Type of Application Fin-Fan, slow rotating shafts

Specifications

All specifications are at +25°C (+77°F), unless
otherwise specified.

Electrical

Sensitivity @

80 Hz (± 12%)

10.2 mV/(m/s²) (100 mV/g)

Measurement Range

Accelerometer 200155

Measurement Range in m/s² (g) ±196 (±20)

Frequency Range Referenced to 80Hz

(±10%)

Accelerometer 200155

Frequency Range in Hz

(cpm) 1.5 to 10,000 (90 to 600,000)

Mounted

Resonant

Frequency

>20 kHz (>1200 kcpm)

Amplitude

Linearity

(1 to 10g pk)

±2%

Transverse

Sensitivity

≤7%

Settling Time (Within 5% of Bias)

Accelerometer Settling Time (ms)

200155 ≤2000

Excitation

Voltage

4.7 to 5.5 Vdc

Polarity

(Acceleration

from Base to

Connector)

SIG+ positive with respect to

SIG-.

Quiescent

Current

<800 µA

Output Bias

Voltage

+2.5 ± 0.23 Vdc

Accelerometer 200155

Measurement Range in mm/s² (mg) 24.5 (2.5)

Environmental

Axial Shock

Limit

49,050 m/s² pk (5,000 g pk)

Temperature

Range

-40 °C to +105 °C (-40 °F to +221

°F)

Sealing

(Hermetic)

5X10⁻⁸ atm•cc/s (3.1X10⁻⁹

atm•in³/s), maximum

Relative

Humidity

100% relative, condensing,

non-submerged

Physical

Size (Hex x

www.AutoDCSTech.com

Height)

17.5 mm x 45.7 mm (11/16 in x 1.8

in)

Weight 58 g (2.0 oz), typical

Mounting

Thread

3/8-24 female

Mounting

Torque

2.7 to 6.8 N•m (2 to 5 ft•lbf)

Sensing

Element

Ceramic

Sensing

Geometry

Shear

Housing and connector material

200155 316L stainless steel

Temperature

Range

-55 °C to +121 °C (-67 °F to +250

°F)

Cure Time 24 hours

"

www.AutoDCSTech.com