

# Bently Nevada 200155-18-05 Manual

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

## Description

"Manufacturer : Bently Nevada

Product No. :200155-18-05

Product Type : Low Frequency Trendmaster Pro  
Accelerometer

Made in U.S.A

MOunting stud option : 18 = 3/8-24 to M8x1 1-3/8 inch hex  
plate 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/s<sup>2</sup>) (100 mV/g)

Measurement Range

Accelerometer 200155

Measurement Range in m/s<sup>2</sup> (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/s<sup>2</sup> (mg) 24.5 (2.5)

Environmental

Axial Shock

Limit

49,050 m/s<sup>2</sup> pk (5,000 g pk)

Temperature

Range

-40 °C to +105 °C (-40 °F to +221

°F)

Sealing

(Hermetic)

5X10<sup>-8</sup> atm•cc/s (3.1X10<sup>-9</sup>

atm•in<sup>3</sup>/s), maximum

Relative

Humidity

www.AutoDCSTech.com

100% relative, condensing,  
non-submerged

Physical

Size (Hex x

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

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