

Bently Nevada 200155-13-05 Manual

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

Description

"Manufacturer : Bently Nevada

Product No. : 200155-13-05

Product Type : Low Frequency Trendmaster Pro
Accelerometer

Made in U.S.A

MOunting stud option : 13= 3/8-24 to 5/16-18 UNC, 3/4 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

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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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