

Bently Nevada 181M6049 Manual

Brand	Bently Nevada
Product Series	Sheet28
Product Type	-

Description

181M6049 Dual

Output Sensor

Specifications

Dynamic

Sensitivity, $\pm 5\%$ @25°C 100 mV/g

Acceleration range 60 g peak

Amplitude nonlinearity 1%

Frequency response

$\pm 5\%$: 3-5,000 Hz

$\pm 10\%$: 1-7,000 Hz

± 3 dB: 0.5-

12,000 Hz

Resonant frequency 30 kHz

Transverse sensitivity, max $\pm 5\%$ of axial

Temperature response

-50°C : -10%

+120°C : +10%

Output sensitivity of the

temperature sensor

10 mV/°C

Measurement range of the

temperature sensor

2° to 120°C

Electrical

Voltage source 18-28 Vdc

Current regulating diode 2-10 mA

Broadband electrical noise

@ 2.5 Hz to 25 kHz 700 μ g

Spectral electrical noise @

10 Hz 10 μ g/ $\sqrt{\text{Hz}}$

Spectral electrical noise @

100 Hz 5 μ g/ $\sqrt{\text{Hz}}$

Spectral electrical noise @

1000 Hz 5 μ g/ $\sqrt{\text{Hz}}$

Output Impedance, max 100 Ω

Bias output voltage 12 Vdc

Grounding

Case isolated,

internally

www.AutoDCSTech.com

shielded

Environmental

Temperature range -50°C to +120°C

Vibration limit 500 g peak

Shock limit 5,000 g peak

Electromagnetic sensitivity,

equiv g, max

70 µg/gauss

Sealing Hermetic

Base strain sensitivity, max

0.0002

g/µstrain

Physical

Sensing element design PZT ceramic /

shear

Weight 90 grams

Case material 316L Stainless

Steel

Mounting ¼-28 UNF

tapped hole

Connector

Output: 3 pin,

MIL-C-5015

style

Recommended cabling

16925-XX:

Without Armor

16710-XX: With

Armor

Connections

Connector Pin Function

Shell ground/case

A

accelerometer

power/signal

B

accelerometer

and temp

sensor common

C

temp sensor

signal

Frequency response and spectral

noise values are typical.

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