

Model Number

625B00

PRECISION INDUSTRIAL ICP®

ACCELEROMETER

Revision: C

ECN #: 56401

Performance

Sensitivity(± 5 %)

Measurement Range

Frequency Range(± 5 %)

Frequency Range(± 10 %)

Frequency Range(± 3 dB)

Resonant Frequency

Broadband Resolution(1 to 10,000 Hz)

Non-Linearity

Transverse Sensitivity

Environmental

Overload Limit(Shock)

Temperature Range

Temperature Response

Enclosure Rating

Electrical

Settling Time(within 1% of bias)

Discharge Time Constant

Excitation Voltage

Constant Current Excitation

Output Impedance

Output Bias Voltage

Spectral Noise(10 Hz)

Spectral Noise(100 Hz)

Spectral Noise(1 kHz)

Electrical Protection

Electrical Isolation(Case)

Physical

Size (Diameter x Height)

Weight

Mounting

Mounting Thread

Mounting Torque

Sensing Element

Sensing Geometry

Housing Material

Sealing

Electrical Connector

Electrical Connection Position

ENGLISH

10 mV/g

± 500 g

60 to 390,000 cpm

45 to 450,000 cpm

24 to 630,000 cpm

1,500 kcpm

350 µg

± 1 %

≤ 5 %

5,000 g pk

-65 to +250 °F

See Graph

IP68

≤ 8 sec

≥ 0.5 sec

18 to 28 VDC

2 to 20 mA

< 100 Ohm

8 to 12 VDC

15 µg/√Hz

7 µg/√Hz

4 µg/√Hz

RFI/ESD

> 10⁸ Ohm

1.38 in x 1.13 in

5.1 oz

Through Hole

1/4-28 Male

2 to 5 ft-lb

Ceramic

Shear

Stainless Steel

Welded Hermetic

2-Pin MIL-C-5015

Side

SI

1.0 mV/(m/s²)

± 4,905 m/s²

1.0 to 6,500 Hz

0.75 to 7,500 Hz

0.4 to 10,500 Hz

25 kHz

3,434 µm/sec²

± 1 %

≤ 5 %

49,050 m/s² pk

-54 to +121 °C

See Graph

IP68

≤ 8 sec

≥ 0.5 sec

18 to 28 VDC

2 to 20 mA

< 100 Ohm

8 to 12 VDC

147 (µm/sec²)/√Hz

69 (µm/sec²)/√Hz

39 (µm/sec²)/√Hz

RFI/ESD

> 10⁸ Ohm

35.1 mm x 28.7 mm

145 gm

Through Hole

Not Applicable

2.7 to 6.8 Nm

Ceramic

Shear

Stainless Steel

Welded Hermetic

2-Pin MIL-C-5015

Side

[1]

[2]

[3]

[3]

[4]

[3]

[3]

[3]

[3]

[5]

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

EX

- Hazardous Area Approval- contact factory for specific approvals

M

- Metric Mount

Supplied Accessory: Model M081A73 Mounting Bolt M6 x 1.00 (1)

TO

- Temperature Output

Temperature Output Range

Temperature Scale Factor

Electrical Connector

Electrical Connections(Pin A)

Electrical Connections(Pin B)

Electrical Connections(Pin C)

+36 to +250 °F

5.56 mV/°F + 32

5-Pin, M12

Acceleration Output

Ground

Temperature Output

+2 to +121 °C

+10 mV/°C

5-Pin, M12

Acceleration Output

Ground

Temperature Output

NOTES:

[1]Conversion Factor 1g = 9.81 m/s².

[2]The high frequency tolerance is accurate within ±10% of the specified frequency.

[3]Typical.

[4]Zero-based, least-squares, straight line method.

[5]1/4-28 has no equivalent in S.I. units.

[6]See PCB Declaration of Conformance PS023 or PS061 for details.

[7]ATEX, IECEx & CSA

SUPPLIED ACCESSORIES:

Model 080B45 Thermal Boot (1)

Model 081A73 Captive mounting bolt 1/4-28 x 1.34" (1)

Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency

Model M081A73 Mounting Bolt M6 x 1.00 (1)

Entered: ND

Engineer: NJF

Sales: JL

Approved: NJF

Spec Number:

Date: 01/29/2026

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16284

CE

UK

CA

[6]

Typical Sensitivity Deviation vs Temperature

Sensitivity Deviation(%)

5

0

-5

-10

-15

-65

-15

35

85

135

185

235

Temperature (°F)

All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without notice.

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IMI SENSORS

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