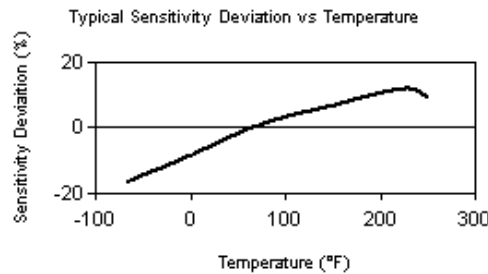


Model Number
607A11

PLATINUM SWIVELER® INDUSTRIAL ICP® ACCELEROMETER

Revision: J
ECN #: 41189

| | ENGLISH | SI | |
|--------------------------------------|-----------------------|---------------------------------|--------|
| Performance | | | |
| Sensitivity(± 15 %) | 100 mV/g | 10.2 mV/(m/s ²) | [2] |
| Measurement Range | ± 50 g | ± 490 m/s ² | |
| Frequency Range(± 3 dB) | 30 to 600,000 cpm | 0.5 to 10,000 Hz | |
| Resonant Frequency | 1500 kcpm | 25 kHz | [1] |
| Broadband Resolution(1 to 10,000 Hz) | 350 µg | 3434 µm/sec ² | [1] |
| Non-Linearity | ± 1 % | ± 1 % | [3] |
| Transverse Sensitivity | ≤ 7 % | ≤ 7 % | |
| Environmental | | | |
| Overload Limit(Shock) | 5000 g pk | 49,050 m/s ² pk | |
| Temperature Range | -65 to +250 °F | -54 to +121 °C | |
| Enclosure Rating | IP68 | IP68 | |
| Electrical | | | |
| Settling Time(within 1% of bias) | ≤ 2 sec | ≤ 2 sec | |
| Discharge Time Constant | ≥ 0.3 sec | ≥ 0.3 sec | |
| Excitation Voltage | 18 to 28 VDC | 18 to 28 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | <150 Ohm | <150 Ohm | |
| Output Bias Voltage | 8 to 12 VDC | 8 to 12 VDC | |
| Spectral Noise(10 Hz) | 8 µg/√Hz | 78.5 (µm/sec ²)/√Hz | [1] |
| Spectral Noise(100 Hz) | 5 µg/√Hz | 49.1 (µm/sec ²)/√Hz | [1] |
| Spectral Noise(1 kHz) | 4 µg/√Hz | 39.2 (µm/sec ²)/√Hz | [1] |
| Electrical Isolation(Case) | >10 ⁸ Ohm | >10 ⁸ Ohm | |
| Physical | | | |
| Size (Hex x Height) | 9/16 in x 0.97 in | 14 mm x 24.6 mm | |
| Weight(without cable) | 1.1 oz | 31 gm | [4] |
| Mounting | Stud | Stud | |
| Mounting Thread | 1/4-28 Male | 1/4-28 Male | [5] |
| Mounting Torque(stud) | 3 to 4 ft-lb | 4.1 to 5.4 Nm | [6][7] |
| Mounting Torque(hex nut) | 2 to 3 ft-lb | 2.7 to 4.1 Nm | |
| Sensing Element | Ceramic | Ceramic | |
| Sensing Geometry | Shear | Shear | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | Molded Integral Cable | Molded Integral Cable | |
| Electrical Connection Position | Side | Side | |
| Cable Length | 10 ft | 3.0 m | |
| Cable Type | Polyurethane | Polyurethane | [8] |



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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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

| | | |
|-------------------------|---|---|
| Hazardous Area Approval | Exia IIC T4, AExia IIC, T4 | Exia IIC T4, AExia IIC, T4 |
| Hazardous Area Approval | EEx nL IIC T4, -40° | EEx nL IIC T4, -40° |
| | CsTas≤121°C, II 1 G | CsTas≤121°C, II 1 G |
| Hazardous Area Approval | Cl I, Div I, Groups A, B, C, D; Cl II, Div I, Groups E, F, G; Cl III, Div I | Cl I, Div I, Groups A, B, C, D; Cl II, Div I, Groups E, F, G; Cl III, Div I |
| Hazardous Area Approval | Cl I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4 | Cl I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4 |
| Hazardous Area Approval | EEx nL IIC T4, -40° | EEx nL IIC T4, -40° |
| | CsTas≤121°C, II 3 G | CsTas≤121°C, II 3 G |

M - Metric Mount

Supplied Accessory : Model M080A159A Mounting stud, 1/2-20 to M6 x 1 (1)

TO - Temperature Output

| | | |
|-------------------------------|-----------------------|-----------------------|
| Temperature Output Range | +36 to +250 °F | +2 to +121 °C |
| Temperature Scale Factor | 5.56 mV/°F + 32 | +10 mV/°C |
| Electrical Connector | Molded Integral Cable | Molded Integral Cable |
| Electrical Connections(Red) | Acceleration Output | Acceleration Output |
| Electrical Connections(Black) | Ground | Ground |
| Electrical Connections(White) | Temperature Output | Temperature Output |

NOTES:

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [3] Zero-based, least-squares, straight line method.
- [4] Measured with mounting stud.
- [5] 1/4-28 has no equivalent in S.I. units.
- [6] 1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version.
- [7] Stud torque must exceed sensor hex nut torque to ensure proper dismantling.
- [8] Twisted shielded pair.
- [9] See PCB Declaration of Conformance PS023 or PS060 for details.

SUPPLIED ACCESSORIES:

Model 080A156 Mounting Base (1)
Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

| | | | | |
|-----------------|-----------------|-----------------|-----------------|--------------|
| Entered: AP | Engineer: jg | Sales: EGY | Approved: BAM | Spec Number: |
| Date: 4/11/2013 | Date: 4/11/2013 | Date: 4/11/2013 | Date: 4/11/2013 | 12650 |

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