

Model Number 607A11	PLATINUM SWIVELER® INDUSTRIAL ICP® ACCELEROMETER		Revision J ECN #: 41189
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) EX - Hazardous Area Approval- contact factory for specific approvals
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 600000 cpm	0.5 to 10000 Hz	
Resonant Frequency	1500 kcpm	25 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	350 µg	3434 µm/sec ²	[1]
Non-Linearity	±1 %	±1 %	[3]
Transverse Sensitivity	≤7 %	≤7 %	
Environmental			
Overload Limit (Shock)	5000 g pk	49050 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	Molded Integral	
	Cable	Cable	
Electrical Connection Position	Side	Side	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	[8]
M - Metric Mount			
Supplied Accessory: Model M080A159A Mounting stud, 1/2-20 to M6 x 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	Molded Integral	
	Cable	Cable	
Electrical Connections (Red)	Acceleration	Acceleration	
	Output	Output	
Electrical Connections (Black)	Ground	Ground	
Electrical Connections (White)	Temperature	Temperature	
	Output	Output	
Notes			
			[1] Typical.
			[2] Conversion Factor 1g = 9.81 m/s ² .
			[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] Stud torque must exceed sensor hex nut torque to ensure proper dismantling.
			[7] 1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version.
			[8] Twisted shielded pair.
			[9] See PCB Declaration of Conformance PS023 or PS060 for details.
Supplied Accessories			
			080A156 Mounting Base (1)
			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
Date: 04/11/2013	Date: 04/11/2013	Date: 04/11/2013	Date: 04/11/2013
			Spec Number: 12650



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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