

# The Swiveler<sup>®</sup> and Spindler<sup>®</sup> Patented ICP<sup>®</sup> Accelerometers

Small, Submersible Sensors with Swiveling Mounting Stud

# Highlights

- Unique 360° swivel mount that allows for easy cable orientation
- Small footprint and low-profile design permits mounting in tight spaces
- Waterproof housing, ideal for submersible applications
- Independent 1/4-28 mounting stud for simple installation
- Intrinsically-safe options available

## **Typical Applications**

- Gearboxes
- Motors
- Oil and Gas Wells & Pipelines
- Pumps and Submersible Pumps
- Wind Turbines

# Hazardous Area Approvals (EX Versions)

#### CSA (Canada & US)

- AEx/Ex ia IIC T4 Class I, Div. 1, Groups A, B, C, D
- AEx/Ex ia IIC T4 Class II, Div. 1, Groups E, F and G
- AEx/Ex ia IIC T4 Class III, Div. 1
- Ex nL IIC T4 Class I, Div. 2, Groups A, B, C and D

#### ATEX

- EEx nL IIC T4
- Ex nA IIC T4 Gc
- EEx ia IIC T4



Installing vibration sensors into tight spots is quick and easy with Models 607A11 (Swiveler®) and 607A61 (Spindler®) ICP® Industrial Accelerometers. The unique design facilitates positioning of the integral, side-exit cable while the floating lock nut secures the sensor into place.

A low-cost, smaller-sized alternative to ring-style accelerometers, both products have definite advantages over other industrial grade vibration sensors. Offering a small footprint (only 9/16 inch) and 360° cable rotation, both products are excellent for permanent installations in space-restricted locations.





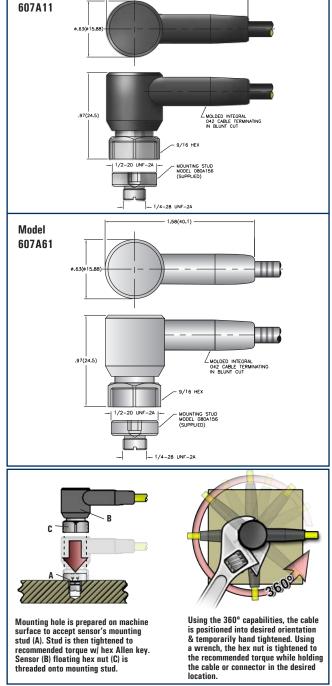
### Swiveler<sup>®</sup> and Spindler<sup>®</sup> ICP<sup>®</sup> Accelerometers

Model

- 1,58(40.1)



	607A11	607A61	
Performance			
Sensitivity (± 15%)		100 mV/g 10.2 mV/(m/s²)	
Measurement Range	±	± 50 g	
Frequency Range (± 3 dB)		± 490 m/s <sup>2</sup> 0.5 to 10,000 Hz	
Resonant Frequency		25,000 Hz	
Broadband Resolution (1 to 10k Hz)	35	350 μg 2 424 μm /c <sup>2</sup>	
Non-Linearity		3,434 μm/s <sup>2</sup> ± 1 %	
Transverse Sensitivity		<7%	
Environmental			
Overload Limit (Shock)		5,000 g pk 49,050 m/s² pk	
Temperature Range		-65 to +250 °F -54 to +121 °C	
Enclosure Rating	IP68	IP67	
Electrical			
Settling Time (within 1% of bias)	≤ 2	$\leq$ 2.0 sec	
Discharge Time Constant	$\geq 0$	≥ 0.3 sec	
Excitation Voltage	18 to	18 to 28 VDC	
Constant Current Excitation	2 to	2 to 20 mA	
Output Impedance	< 15	< 150 ohm	
Output Bias Voltage	8 to	8 to 12 VDC	
Spectral Noise (10 Hz)	4 8	8 µg/√Hz	
Spectral Noise (100 Hz)	5 µ	5 μg/√Hz	
Spectral Noise (1 kHz)	4 μ	4 μg/√Hz	
Electrical Isolation (Case)	> 10	> 10 <sup>8</sup> ohm	
Physical			
Size (Hex x Height)		9/16 in x 0.97 in 14 mm x 24.6 mm	
Weight (with cable)		1.1 oz 31 gm	
Mounting	S	Stud	
Mounting Thread	1/4-2	1/4-28 Male	
Mounting Torque (stud)		3 to 4 ft-lb 4.1 to 5.4 Nm	
Mounting Torque (hex nut)	2 to	2 to 3 ft-lb 2.7 to 4.1 Nm	
Sensing Element		Ceramic Shear	
Housing Material	Stainl	Stainless Steel	
Sealing	Welded	Welded Hermetic	
Electrical Connector		Integral Cable	
Electrical Connection Position		Side	
Cable Length		10 ft 3.0 m	
Cable Type	Polyurethane	Armored Polyurethan	
Similar Models			
Hazardous Area Approved	EX607A11	EX607A61	
Dual Output	T0607A11	T0607A61	



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ISO 9001 CERTIFIED = A2LA ACCREDITED to ISO 17025

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IMI Sensors designs and manufactures a full line of accelerometers, sensors, vibration switches, vibration transmitters, cables and accessories for predictive maintenance, continuous vibration monitoring, and machinery equipment protection. Products include rugged industrial ICP® accelerometers, 4-20 mA industrial vibration sensors and transmitters for 24/7 monitoring, electronic and mechanical vibration switches, the patented Bearing Fault Detector, high temperature accelerometers to +900 °F (+482 °C), 2-wire Smart Vibration Switch, and the patented Reciprocating Machinery Protector. CE approved and intrinsically safe versions are available for most products.

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