





**Click to Learn More! >**

**Model 607A11 Industrial Accelerometer**

# Swiveler® ICP® Industrial Accelerometer

Conveniently Installs into Tight Places

## Highlights

- Unique 360° Swivel Mount that Allows For Easy Cable Orientation
- Smallest Industrial Accelerometer on the Market (9/16 Inch Hex. Footprint, Low Profile)
- Lower Cost Alternative to Through Bolt Sensors
- Ideal for Pump Applications
- Electronically Suppressed Resonance
- Prevents High Frequency Saturation Problems
- Intrinsically Safe Options   
- Submersible



**Model 607A11**

(US Patent #6,435,902)



Installing vibration sensors into tight spots is quick and easy with Model 607A11 Swiveler® ICP® Industrial Accelerometer. 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, Swiveler® has definite advantages over other industrial grade vibration sensors. Offering a small footprint (only 9/16 inch) and 360° cable rotation, the Swiveler® is excellent for permanent installations in space-restricted locations. The unit's laser-welded, hermetically-sealed design and stainless steel construction permits its use in dirty, oily, industrial, and submerged applications. With a sensitivity of 100 mV/g and frequency range to 600k cpm (10k Hz), Model 607A11 is ideal for route-based or on-line monitoring of rotating machinery.

**LIFETIME WARRANTY**   
Products Guaranteed for Life & More!

 **IMI SENSORS**  
A PCB PIEZOTRONICS DIV.

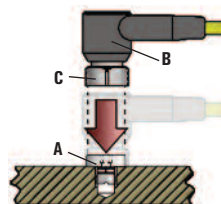
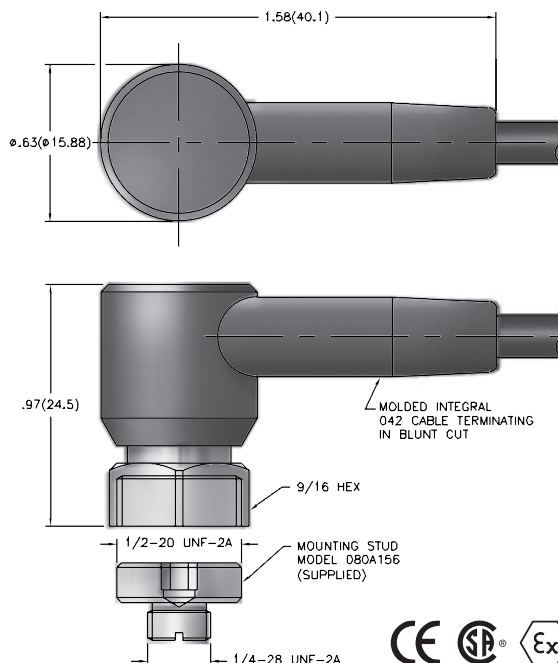
visit us online at [www.imi-sensors.com](http://www.imi-sensors.com)

 Toll-Free in USA 800-959-4464  716-684-0003



## Model 607A11 Industrial Accelerometer

Model	607A11	
Dynamic Performance	English	SI
Sensitivity (± 15%)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )
Measurement Range	± 50 g	± 490 m/s <sup>2</sup>
Frequency Range (± 3 dB)	30 to 600k cpm	0.5 to 10k Hz
Resonant Frequency	1500k cpm	25k Hz
Broadband Resolution (1 to 10k Hz)	350 µg	3434 µm/s <sup>2</sup>
Non-linearity	± 1 %	
Transverse Sensitivity	< 7 %	
Environmental		
Overload Limit (Shock)	5000 g pk	49,050 m/s <sup>2</sup> pk
Temperature Range	-65 to +250 °F	-54 to +121 °C
Electrical		
Settling Time (within 1% of bias)	< 2.0 sec	
Discharge Time Constant	0.3 sec	
Excitation Voltage	18 to 28 VDC	
Constant Current Excitation	2-20 mA	
Output Impedance	< 150 ohm	
Output Bias Voltage	8 to 12 VDC	
Electrical Isolation (Case)	> 108 ohm	
Physical		
Size (Hex x Height)	9/16 x 0.97 in	9/16 in x 24.6 mm
Weight (without cable)(1)	1.1 oz	31 gm
Mounting	Stud	
Mounting Thread	1/4-28 Male	
Mounting Torque (stud)	7 to 8 ft-lb	9.5 to 10.8 N-m
Mounting Torque (hex nut)	2 to 5 ft-lb	2.7 to 6.8 N-m
Sensing Element	Ceramic Shear	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Electrical Connector	Molded Integral Cable	
Electrical Connection Position	Side	
Cable Length	10 ft	3.0 m
Cable Type	Polyurethane (Model 042)	
Optional Versions		
Intrinsically Safe	EX	
Metric Installation	M	
Temperature Output	T0	
Supplied Accessories		
Mounting Hardware	Model 080A156 Mounting Stud	
Metric Mounting Hardware	Model M080A159 Mounting Stud	
Supplied Accessories:		
Mounting Stud	Model 080A156	
Single point NIST traceable calibration at 100 Hz		
Notes		
1. Weight includes 10 ft (3 m) integral cable and mounting stud.		



Mounting hole is prepared into machine surface to accept sensor's mounting stud (A). Stud is then tightened to recommended torque w/ hex Allen key. Sensor (B) floating hex nut (C) is threaded onto mounting stud.



Using the 360° capabilities of the Swiveler®, the cable is positioned into desired orientation & temporarily hand tightened. Using a wrench, the hex nut is tightened to the recommended torque while holding the cable or connector in the desired location.



### Available Versions

**Model 607A01** — 2-pin MIL version

**Model 607A11** — Standard 10 ft (3 m) integral cable

**Model 607A11/020BZ** — 20 ft (6 m) integral cable

**Model 607A11/030BZ** — 30 ft (9 m) integral cable

**Model M607A11** — Supplied with Model 080A159 metric mounting stud (with M6 x 1.0 installation thread)

(US Patent No. 6,435,902)

**\*All versions available with "EX" prefix**  
(CSA & ATEX Approvals)



3425 Walden Avenue, Depew, NY 14043-2495 USA

**Toll-Free in USA 800-959-4464**

**24-hour SensorLine™ 716-684-0003**

**Fax 716-684-3823 E-mail imi@pcb.com**

**Web Site www.imi-sensors.com**

ISO 9001 CERTIFIED ■ A2LA ACCREDITED to ISO 17025

© 2011 PCB Group, Inc. In the interest of constant product improvement, specifications are subject to change without notice. PCB, ICP, Modally Tuned, Spindler, Swiveler and TORKDISC are registered trademarks of PCB Group. SoundTrack LXT, Spark and Blaze are registered trademarks of PCB Piezotronics. SensorLine is a service mark of PCB Group. All other trademarks are property of their respective owners.

IMI-607A11-0311

Printed in U.S.A.

**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.

Visit [www.imi-sensors.com](http://www.imi-sensors.com) to locate your nearest sales office