

Model Number
A0760GP

INDUSTRIAL ICP® ACCELEROMETER

Revision:
ECN #:

DYNAMIC PERFORMANCE

	<u>ENGLISH</u>	<u>SI</u>	
Sensitivity (±20%)	100 mV/g	10,2 mV/(m/s ²)	[1]
Measurement Range	±50 g	±490 m/s ²	
Frequency Range: (±5%)	72 – 300,000 cpm	1,2 Hz – 5 kHz	[2] [3]
(±10%)	52 – 480,000 cpm	0,87 Hz – 8 kHz	
(±3 dB)	26 – 600,000 cpm	0,43 Hz – 10 kHz	
Mounted Resonant Frequency	1,680 kcpm	28 kHz	[4]
Amplitude Linearity	±1%	±1%	[5]
Transverse Sensitivity	≤5%	≤5%	

ENVIRONMENTAL

Shock Limit - Axial	5,000 g pk	49 050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[4]

ELECTRICAL

Settling Time (within 1% of bias)	≤2.0 sec	≤2,0 sec	
Discharge Time Constant	≥0.4 sec	≥0,4 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current	2 to 20 mA	2 to 20 mA	
Output Impedance	<150 ohms	<150 ohms	
Output Bias	8 to 12 VDC	8 to 12 VDC	
Broadband Electrical Noise (1-10 kHz)	300 µg	2 943 µm/s ²	[4]
Spectral Noise: (10 Hz)	8 µg/√Hz	78,5 (µm/s ²)/√Hz	[4]
(100 Hz)	3 µg/√Hz	29,4 (µm/s ²)/√Hz	[4]
(1 kHz)	2,5 µg/√Hz	24,5 (µm/s ²)/√Hz	[4]
Case Isolation	>10 ⁸ ohms	>10 ⁸ ohms	

MECHANICAL

Size (hex x height)	11/16 x 1.66 in	17,5 x 42,2 mm	
Weight	1.7 oz	48,6 gm	
Mounting Thread	1/4-28 UNF-2B	Not Applicable	[6]
Mounting Torque	2 to 5 ft-lb	2,7 to 6,8 N-m	
Sensing Element/Geometry	Ceramic/Shear	Ceramic/Shear	
Case Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Connector Type (2-pin)/Position	Mil-C-5015/Top	Mil-C-5015/Top	

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.

M - Metric

Supplied Accessories

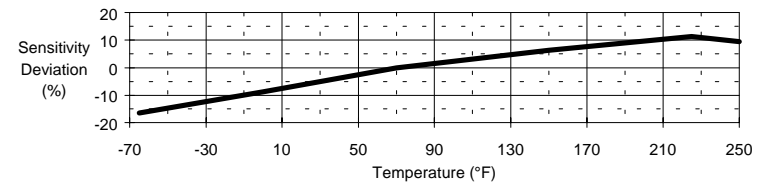
Model M081A61 Mounting Stud replaces Model 081A40

NOTES:

- [1] Conversion Factor 1g = 9,81 m/s².
- [2] 1 Hz = 60 cpm (cycles per minute).
- [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [4] Typical value.
- [5] Zero-based, least-squares, straight line method.
- [6] 1/4-28 has no equivalent in S.I. units.

SUPPLIED ACCESSORIES:

Mounting Stud (1)
Single Point Calibration at 100 Hz



All specifications are at room temperature unless otherwise specified.

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

Form DD030 Rev.E 2/20/98

Drawn:	Engineer:	Sales:	Approved:	Spec Number:
Date:	Date:	Date:	Date:	15615



835 INNOVATION DRIVE

KNOXVILLE, TENNESSEE 37932-2470

PHONE: (423) 675-2110

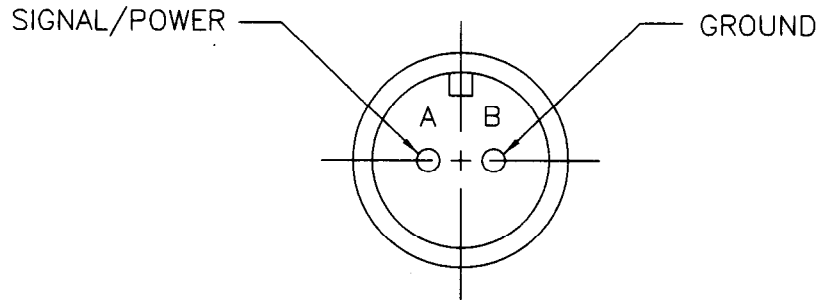
FAX: (423) 675-3100

15613

APPLICATION		
NEXT ASS'Y	USED ON	VAR

REVISIONS				
REV	DESCRIPTION	ECN	DATE	APP'D

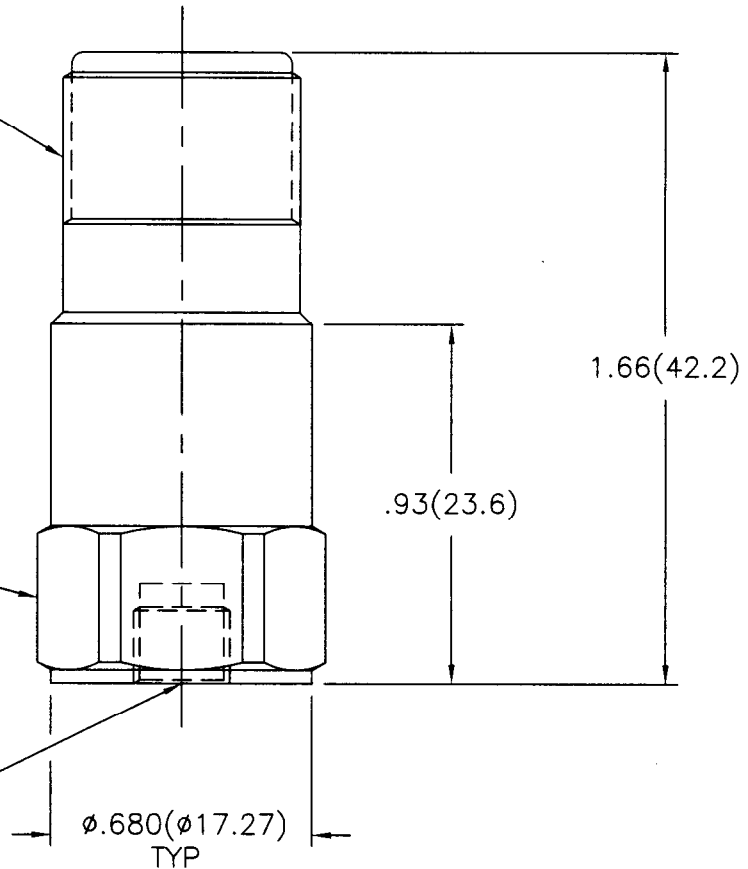
TOP VIEW OF CONNECTOR



ELECTRICAL CONNECTOR
5/8-24 UNEF-2A
2 PIN (MIL-C-5015)

11/16 (18mm) HEX

1/4-28 UNF-2B
X .19(4.8) ▽



UNLESS SPECIFIED TOLERANCES	
DIMENSIONS IN INCHES	DIMENSIONS IN MILLIMETERS (IN PARENTHESIS)
DECIMALS XX ±.01	DECIMALS XX ±0.3
XXX ±.005	XXX ±0.13
ANGLES ±2 DEGREES	ANGLES ±2 DEGREES
FILLETS AND RADII .003 - .005	FILLETS AND RADII (0.07 - 0.13)

DRAWN	<i>MUS</i>	2/2/01	MFG	<i>S.D</i>	2/2/01
CHK'D	<i>sm</i>	2/2/01	ENGR	<i>UC</i>	2/2/01
APP'D	<i>Ma</i>	2/2/01	Sales	<i>Ma</i>	2/2/01
TITLE	OUTLINE DRAWING MODEL A0760GP ACCELEROMETER				

CSI 835 INNOVATION DRIVE
KNOXVILLE, TENNESSEE 37932-2470
PHONE: (423) 675-2110
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CODE IDENT. NO.	DWG. NO.
	15613
SCALE: 2X	SHEET 1 OF 1