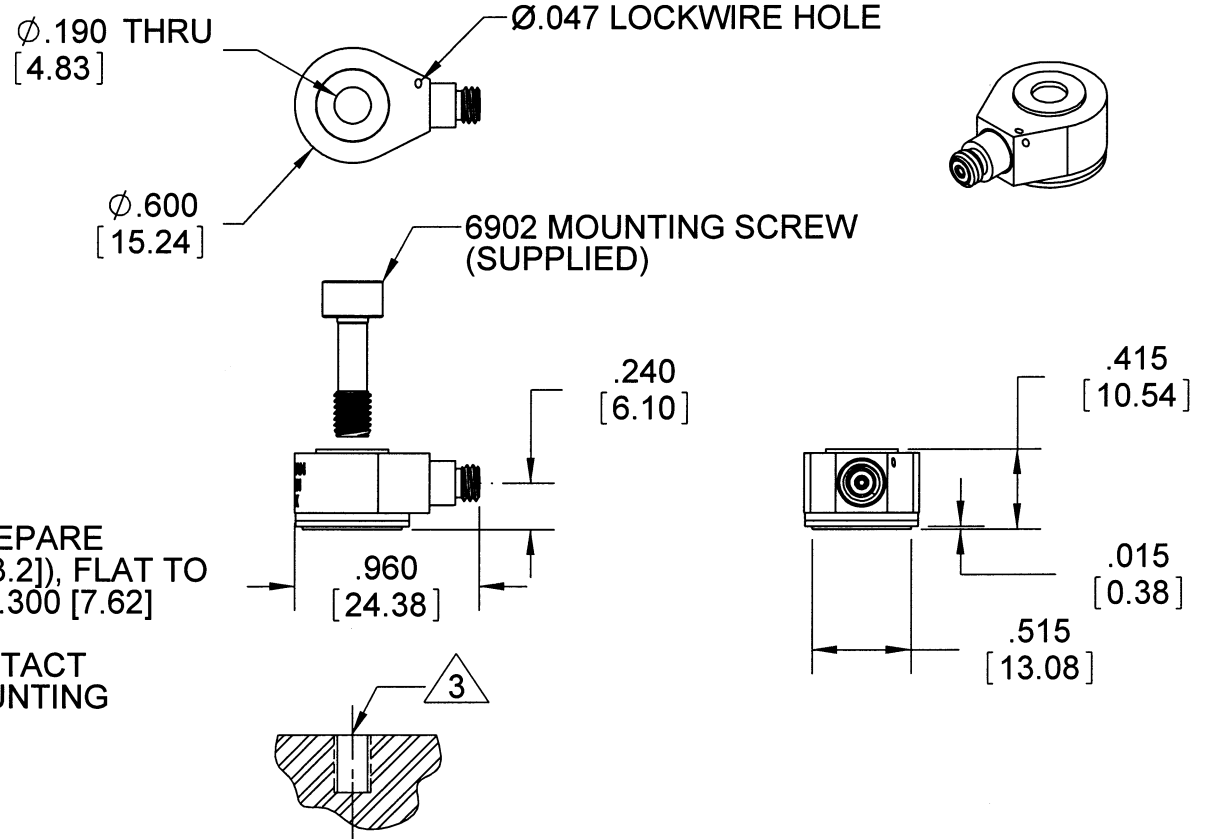


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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5633	ADD: 6902	RA 12/02/08	AWS	



3 MOUNTING RECOMENDATIONS: PREPARE MOUNTING SURFACE Ø.56 [14.2] (Ø.52 [13.2]), FLAT TO .001 TIR. DRILL AND TAP 10-32 UNC-2B X .300 [7.62] DEEP MIN. RECOMMENDED MOUNTING TORQUE: 15 LB IN +5/-0 LB IN. MUST CONTACT MOUNTING SURFACE OVER ENTIRE MOUNTING SURFACE OF ACCEROMETER.

2. MATERIAL: TITANIUM

1. WEIGHT: 10 GRAMS

NOTES: UNLESS OTHERWISE SPECIFIED.

3215M1	UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING. ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLES .XX ± .03 .X ± 0.8 ± 1° .XXX ± .010 .XX ± 0.25		
MATERIAL		
FINISH		
DO NOT SCALE DRAWING		

CONTRACT NO.	
APPROVALS	DATE
ORIG JS	04/03/08
CHK CES	4/03/08
APP D.V.	4/08/08
APP	

DYTRAN INSTRUMENTS, INC. **MASTER ONLY IF IN RED**
Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, 3215M1**

SIZE A	CAGE CODE 2W033	DWG. NO. 127-3215M1	REV B
SCALE: 2:1	SOLIDWORKS	SHEET 1 OF 1	

Model Number 3215M1	PERFORMANCE SPECIFICATION	DOC NO PS3215M1
MINIATURE IEPE ACCELEROMETER		REV B, ECN 12138, 01/24/17



- MINIATURE SIZE
- HERMETICALLY SEALED
- LOW NOISE

PHYSICAL

Weight, Max
Connector, Side Mounted
Mounting Provision, Thru Hole
Material, Housing/Connector
Sensing Element
Element Style

ENGLISH		SI	
0.35	oz	10	grams
10-32 UNF-2A		10-32 UNF-2A	
Ø.19	Inches	Ø 4.8	mm
Titanium		Titanium	
Quartz		Quartz	
Shear		Shear	

PERFORMANCE

Sensitivity, ±5% [1]
Range F.S for ± 5 Volts Output
Frequency Response, ±5%
Resonant Frequency
Equivalent Electrical Noise Floor
Low Frequency -3db point
Low Frequency -5% point
Linearity [2]
Maximum Transverse Sensitivity
Strain Sensitivity @ 250µε

10	mV/g	1.0	Hz
± 500	g	± 4905	kHz
1 to 10,000	Hz	1 to 10,000	m/s ² rms
>50	kHz	>50	Hz
0.005	Grms	0.05	Hz
0.300	Hz	0.30	% F.S.
1.000	Hz	1.00	%
± 1%	% F.S.	± 1%	m/s ² /µε
5	%	5	
0.003	g/µε	0.03	

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal, Hermetic

± 600	Gpeak	± 5886	m/s ² peak
± 5000	Gpeak	± 49050	m/s ² peak
-60 to +300	°F	-51 to +149	°C
Welded/Glass To Metal		Welded/Glass To Metal	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedance, Typ
Bias Voltage
Discharge Time Constant
Electrical Isolation

2 to 20	mA	2 to 20	mA
+ 15 to +24	Volts	+ 15 to +24	VDC
120	Ω	120	Sec
7.5 to 9.5	VDC	7.5 to 9.5	Sec
0.5 to 1.5	Sec	0.5 to 1.5	GΩ, min
0.5 to 1.5	Sec	0.5 to 1.5	
10	GΩ, min	10	

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response, ±5 % (Hz)	Time Constant (Sec)	Operating Temp (°F)

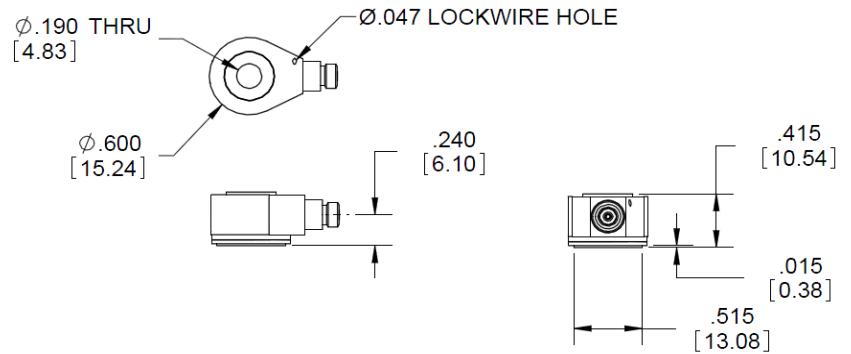
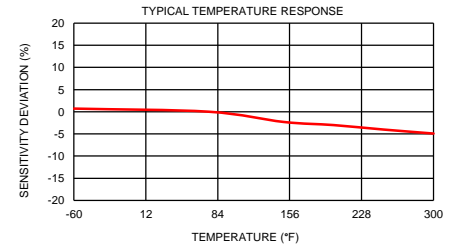
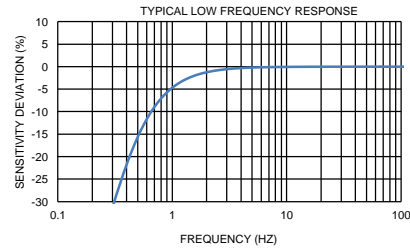
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting Screw, Model 6902, Qty: 1

Notes:

- [1] Measure at 100Hz, 1 Grms per ISA RP 37.2
- [2] Measure using zero-based straight line method, % of F.S. or any lesser range.
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3215M1 for more information.

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