

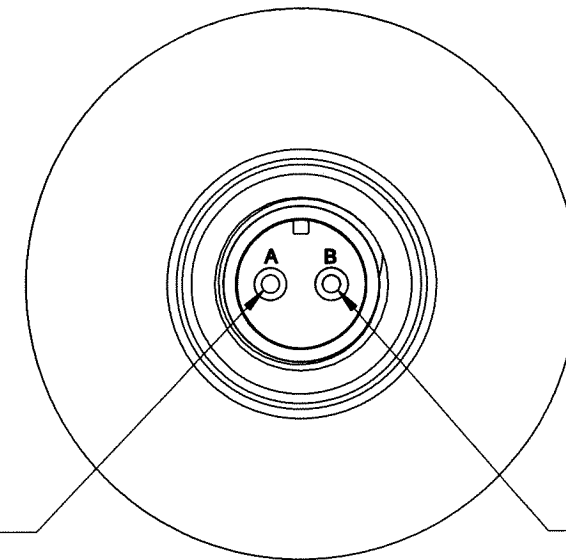
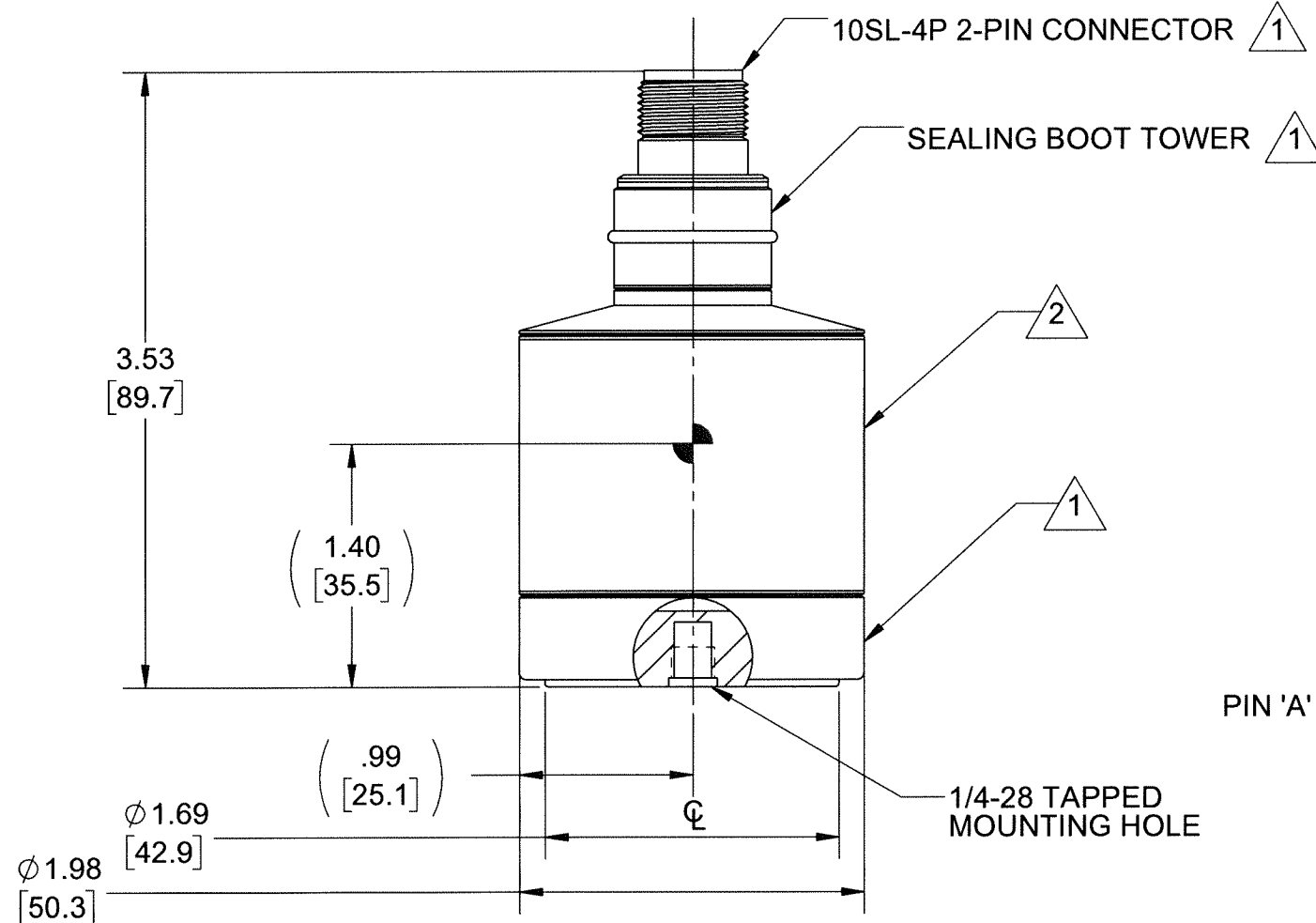
PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	14630	CONVERTED TO SOLIDWORKS; ADDED CENTER OF GRAVITY MARKING	DP 10/18/18	RA	LN

MODEL	SENSITIVITY
3191A	5 V/G
3191A1	10 V/G



- 4. TEMPERATURE RANGE: -15°C TO +107°C (-60°F TO +225°F)
- 3. WEIGHT: 760 GRAMS
- 2 MATERIAL: 304L
- 1 MATERIAL: 316L

NOTES: UNLESS OTHERWISE SPECIFIED

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. DIMENSIONS APPLY AFTER FINISHING.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS TOLERANCES ARE:				<b>MASTER</b> ONLY IF IN RED		
	DECIMALS .XX ±.03 .XXX ±.010	METRIC X ± 0.8 .XX ±0.25	ANGLES ±1°	TITLE: <b>OUTLINE/INSTALLATION DWG,          MODELS 3191A &amp; 3191A1</b>		SIZE <b>B</b>	CAGE CODE <b>2W033</b>
	APPROVALS ORIG NC 12/14/95 CHK NC 12/14/95 APP PML 03/03/05	DATE 12/14/95 03/03/05	DWG NO <b>127-3191A</b>		REV <b>C</b>	SHEET 1 OF 1	
	ALL MACHINED SURFACES: <sup>63</sup> ✓ 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.		DO NOT SCALE DRAWING		SCALE: 1:1		

	<b>IEPE SINGLE AXIS ACCELEROMETER</b>	REV C, ECN 10367, 09/11/13
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- HERMETICALLY SEALED
- HIGH SENSITIVITY

**PHYSICAL**

Weight, Max  
Connector Type  
Mounting Provision  
Material, Housing/Connector  
Sensing Element  
Element Style

ENGLISH		SI	
27	oz	775	grams
2 -PIN, MIL-C-5015-10SL-4P		2 -PIN, MIL-C-5015-10SL-4P	
1/4-28, TAPPED HOLE		1/4-28, TAPPED HOLE	
300 SERIES		300 SERIES	
CERAMIC		CERAMIC	
ANNULAR SHEAR		ANNULAR SHEAR	

**PERFORMANCE**

Sensitivity, ±5% [1]  
Range for ± 5 Volts Output  
Frequency Response, ±5%  
Resonant Frequency  
Broad Band Resolution  
Linearity [2]  
Maximum Transverse sensitivity  
Strain Sensitivity @ 250µε  
Coefficient of Thermal Sensitivity

5	V/G	1	V/m/s <sup>2</sup>
1	G peak	10	m/s <sup>2</sup>
0.08 to 1000	Hz	0.08 to 1000	Hz
> 8	kHz	> 8	kHz
0.000012	G rms	0.00012	m/s <sup>2</sup> rms
± 2	% F.S.	± 2	% F.S.
5	%	6	%
0.001	G/µε	0.01	m/s <sup>2</sup> /µε
0.07	%/°F	0.14	%/°C

**ENVIRONMENTAL**

Maximum Vibration  
Maximum Shock  
Operating Temperature Range  
Seal

50	G peak	491	m/s <sup>2</sup> peak
100	G peak	981	m/s <sup>2</sup> peak
-60 to +225	°F	-51 to 107	°C
HERMETIC		HERMETIC	

**ELECTRICAL**

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

2 to 20	mA	2 to 20	mA
+18 to +30	Volts	+18 to +30	Volts
100	Ω	100	Ω
+11 to +13	VDC	+11 to +13	VDC
4 to 7	Sec	4 to 7	Sec
10	GΩ,min	10	GΩ,min

**This family also includes:**

Model	Sensitivity (V/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
3191A1	10	0.08 to 1000	4 to 5	-60 to +250

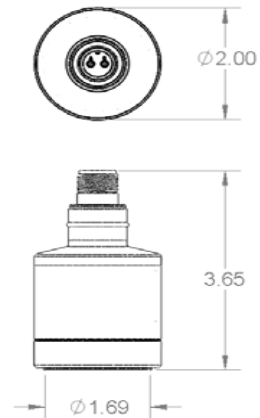
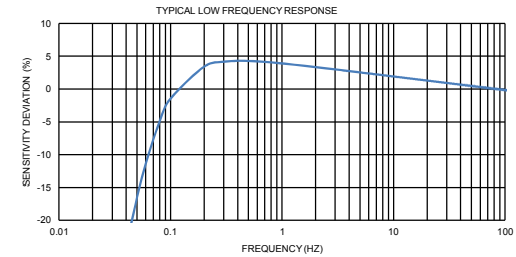
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6176 mounting stud

**Notes:**

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measured 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 amplifier.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3191A for more information.

