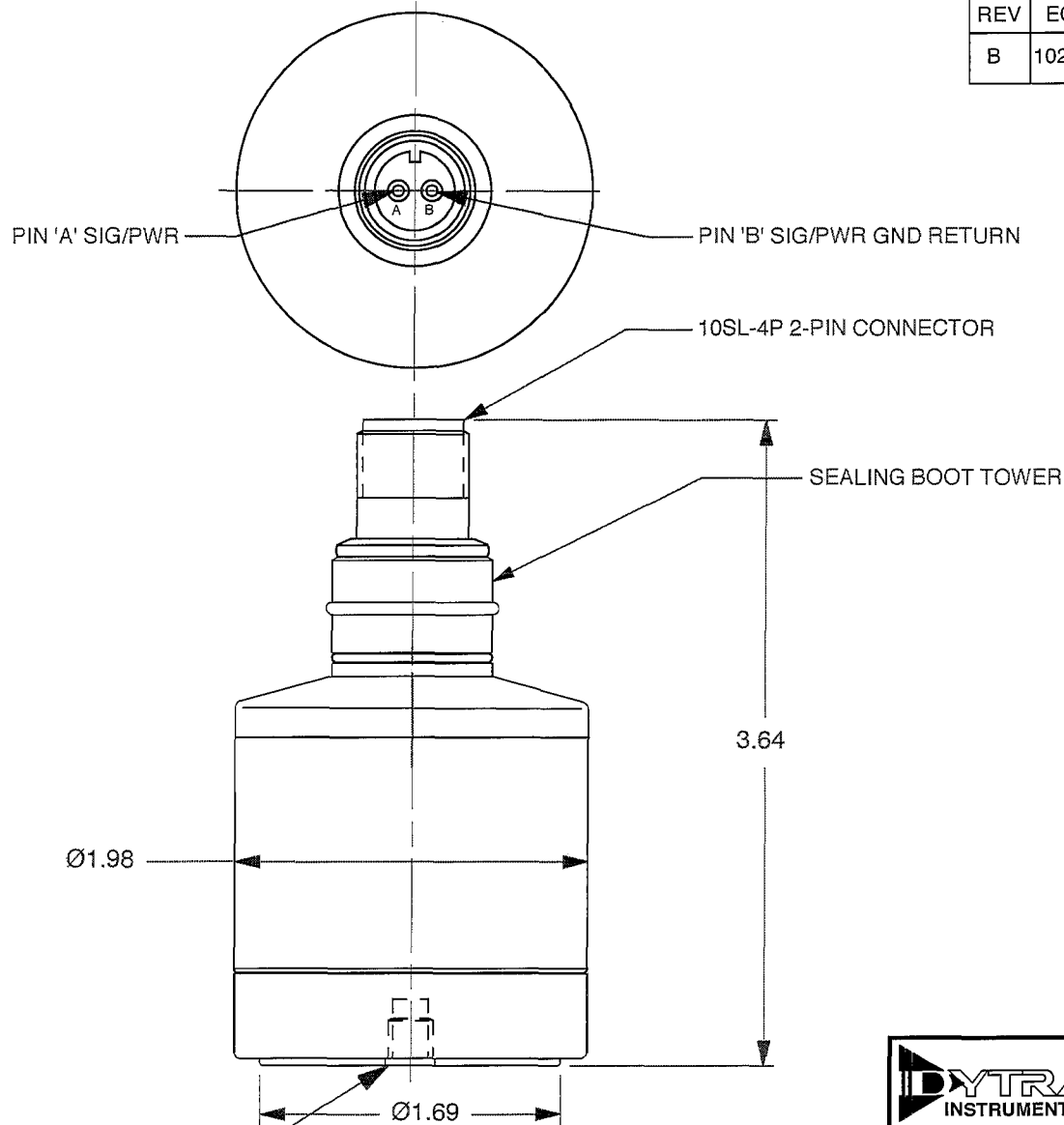


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	10245	TEMPERATURE RANGE WAS: -65° TO +175°F	AB 08/12/13	MIH	<i>[Signature]</i>



1/4-28 TAPPED  
MOUNTING HOLE

MODEL 6176, 1/4-28  
MOUNTING STUD,  
STEEL (SUPPLIED)

**SPECIFICATIONS**

SENSITIVITY-MODEL 3191A	5 VOLTS/G
SENSITIVITY-MODEL 3191A1	10 VOLTS/G
FREQUENCY RANGE, +/- 5%	.1 to 1000 Hz
SUPPLY CURRENT	2 to 20 mA
SUPPLY VOLTAGE	+18 to +30VDC
TEMPERATURE RANGE	-60° to +225°F
WEIGHT	760 GRAMS

<b>DYTRAN</b> INSTRUMENTS, INC.		<b>MASTER</b> ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	1X	REV	DATE	ECN	SEE REV BLOCK
DATE	12-14-95	PART NO.			
DRAWN	N.C.	CHECKED	N.C.	MAT'L	
APPROVED	PML 3-3-05	NEXT ASSEMBLY		USED ON	
TITLE				DWG NO.	
<b>OUTLINE/INSTALLATION DRAWING</b> <b>MODELS 3191A &amp; 3191A1</b>				<b>127-3191A</b>	
SHEET 1 OF 1					



- 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

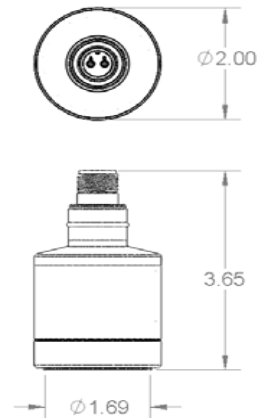
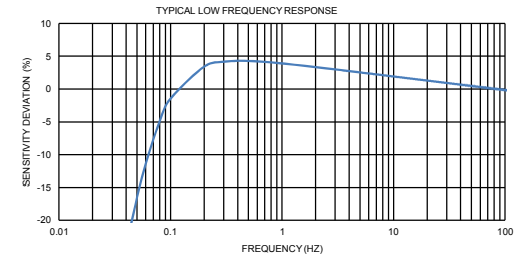
Refer to the performance specifications of the products in this family for detailed description

**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.



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