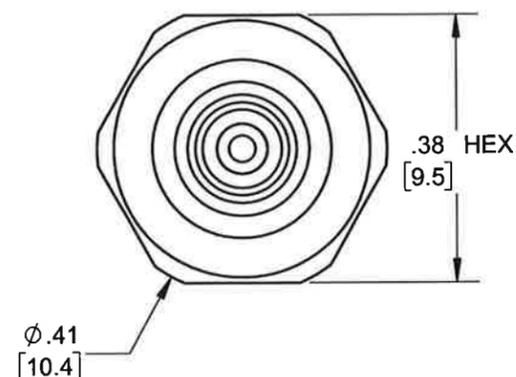


PROPRIETARY AND CONFIDENTIAL

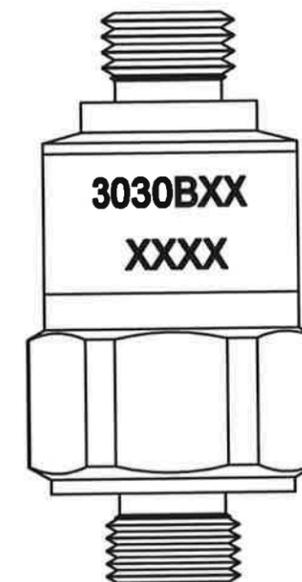
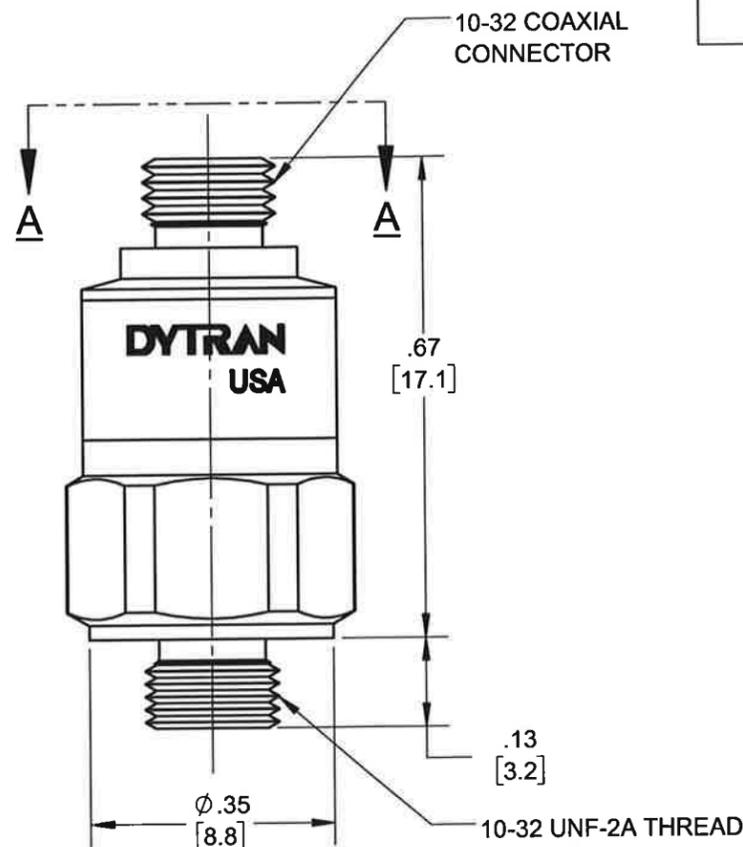
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	12932	REDRAWN IN SOLIDWORKS	RA, 09/09/16	EM	W

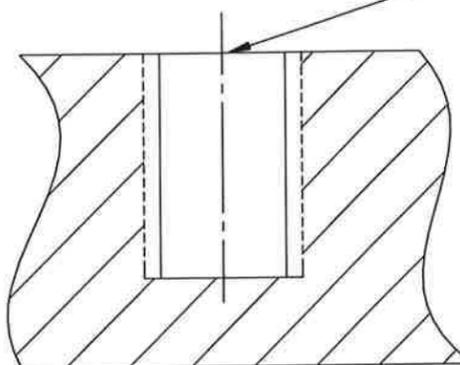


VIEW A-A  
SCALE 4 : 1



REAR VIEW

MOUNTING RECOMENDATIONS: PREPARE FLAT MOUNTING SURFACE  $\phi .50 [12.7]$  MIN, FLAT TO  $.001$  TIR. DRILL AND TAP 10-32 UNF-2B  $\nabla .15 [3.8]$  MIN. RECOMMENDED MOUNTING TORQUE: 15 LB IN  $+0/-5$  LB IN



- $\triangle 4$  ARROW INDICATES SENSE AND DIRECTION OF ACCELERATION FOR POSITIVE - GOING OUTPUT SIGNAL
- $\triangle 3$  PREPARE FLAT SURFACE TO THIS DIA. WITH A FINISH OF OR BETTER AND FLAT TO  $.001$  TIR.
- $\triangle 2$  PREPARE MOUNTING SURFACE AS SHOWN. APPLY A LAYER OF SILICONE GREASE TO MOUNTING SURFACE. TORQUE IN PLACE WITH 15 LB-IN.

1. HOUSING MATERIAL: 316L STAINLESS STEEL

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.

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.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS TOLERANCES ARE:		
DECIMALS	METRIC	ANGLES
.XX $\pm .03$	.X $\pm 0.8$	$\pm 1^\circ$
.XXX $\pm .010$	.XX $\pm 0.25$	
APPROVALS		DATE
ORIG	NC	12/07/95
CHK	NC	06/30/98
APP	NC	06/30/16
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION



TITLE: **OUTLINE/INSTALLATION DRAWING, 3030B SERIES**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3030B	B
SCALE: 2:1		SHEET 1 OF 1	

Model Number 3030B4	<b>PERFORMANCE SPECIFICATION</b>	DOC NO PS3030B4
<b>MINIATURE IEPE ACCELEROMETER</b>		REV E, ECN 12932, 09/13/16



- MINIATURE SIZE
- EXCELLENT LINEARITY
- HERMETICALLY SEALED

**PHYSICAL**

Weight  
Size  
Connector  
Mounting Provision  
Material  
Element Style

Hex x Height  
Top Mounted  
Integral Stud  
Accelerometer and Connector

ENGLISH		SI	
0.25	oz	7.2	grams
0.375 x 0.67	Inches	9.525 x 17.01	mm
10-32 Micro Coax		10-32 Micro Coax	
10-32 (UNF-2A)		10-32 (UNF-2A)	
17-4 PH/ 304L		17-4 PH/ 304L	
Quartz Compression		Quartz Compression	

**PERFORMANCE**

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

10	mV/g	1	mV/m/s <sup>2</sup>
±500	g	±4905	m/s <sup>2</sup>
2 to 10000	Hz	2 to 10000	Hz
30	kHz	30	kHz
0.0036	Grms	0.035	m/s <sup>2</sup> rms
± 1%	% F.S.	± 1%	% F.S.
5	%	5	%
0.003	g/µε	0.03	m/s <sup>2</sup> /µε

**ENVIRONMENTAL**

Maximum Vibration  
Maximum Shock  
Temperature Range  
Seal, Hermetic

±1000	Gpeak	±9810	m/s <sup>2</sup> peak
±3000	Gpeak	±29430	m/s <sup>2</sup> peak
-60 to +250	°F	-51 to 121	°C
Welded/Glass To Metal		Welded/Glass To Metal	

**ELECTRICAL**

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

2 to 20	mA	2 to 20	mA
+ 18 to +30	Volts	+ 18 to +30	Volts
100	Ω	100	Ω
7.5 to 11	VDC	7.5 to 11	VDC
0.5 to 1	Sec	0.5 to 1	Sec

**This family also includes:**

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
3030B5	10	5 to 10000	0.1 to 0.3	-60 to 250
3030B5H	10	5 to 10000	0.1 to 0.3	-60 to 325

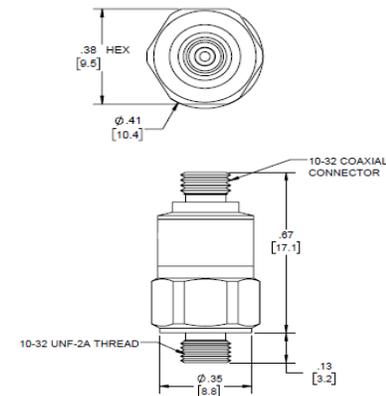
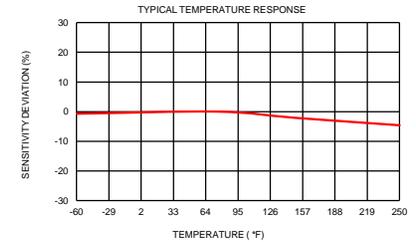
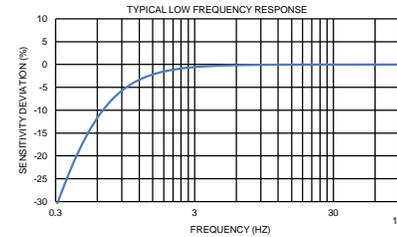
Please refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)

**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.
- [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. Refer to 127-3030B for more information.



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