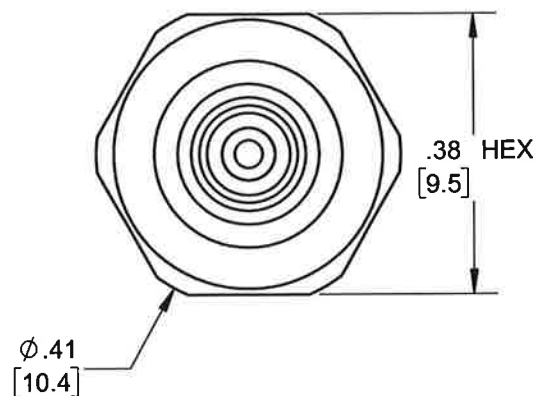


PROPRIETARY AND CONFIDENTIAL

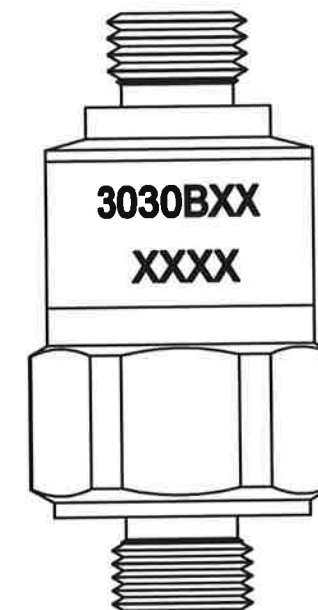
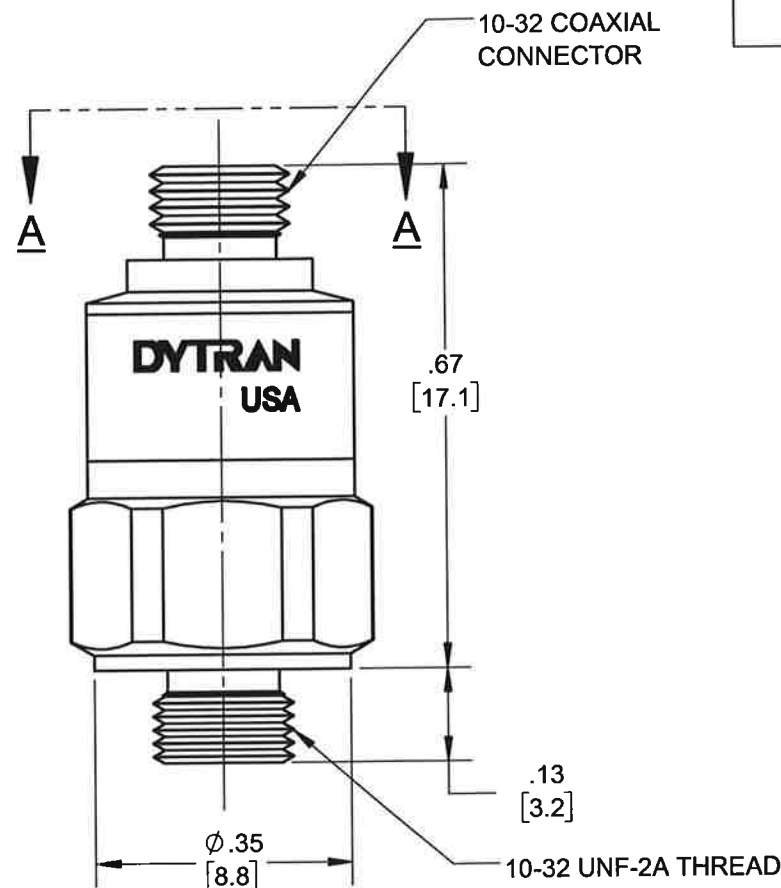
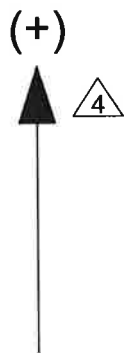
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REVISIONS

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

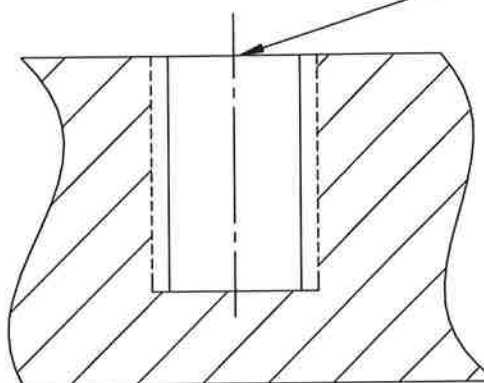


VIEW A-A  
SCALE 4 : 1



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	

<b>Model Number</b> 3030B5	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO</b> PS3030B5
<b>MINIATURE IEPE ACCELEROMETER</b>		REV H, ECN 12932, 09/14/16



- **MINIATURE SIZE**
- **EXCELLENT LINEARITY**
- **HERMETICALLY SEALED**

**PHYSICAL**

Weight	0.25 oz
Size	0.375 x 0.67 inches
Connector	10-32 Micro Coax
Mounting Provision	10-32 (UNF-2A)
Material	17-4 PH/ 304L
Element Style	Quartz Compression

ENGLISH		SI	
Weight	0.25 oz	7.2	grams
Size	0.375 x 0.67 inches	9.525 x 17.01	mm
Connector	10-32 Micro Coax	10-32 Micro Coax	
Mounting Provision	10-32 (UNF-2A)	10-32 (UNF-2A)	
Material	17-4 PH/ 304L	17-4 PH/ 304L	
Element Style	Quartz Compression	Quartz Compression	

**PERFORMANCE**

Sensitivity, ±5% [1]	10 mV/g	1	mV/m/s <sup>2</sup>
Range F.S for ± 5 Volts Output	±500 g	±4905	m/s <sup>2</sup>
Frequency Response, ±5%	5 to 10000 Hz	5 to 10000	Hz
Resonant Frequency	>30 kHz	>30	kHz
Equivalent Electrical Noise Floor	0.007 grms	0.0687	m/s <sup>2</sup> rms
Linearity [2]	± 1% % F.S.	± 1%	% F.S.
Maximum Transverse sensitivity	5 %	5	%
Strain Sensitivity @ 250µε	0.003 g/µε	0.03	m/s <sup>2</sup> /µε

**ENVIRONMENTAL**

Maximum Vibration	±1000 gpeak	±9810	m/s <sup>2</sup> peak
Maximum Shock	±3000 gpeak	±29430	m/s <sup>2</sup> peak
Temperature Range	-148 to +250 °F	-100 to 121	°C
Seal, Hermetic	Welded/Glass To Metal	Welded/Glass To Metal	

**ELECTRICAL**

Supply Current Range [3]	2 to 20 mA	2 to 20	mA
Compliance Voltage Range	+ 18 to +30 Volts	+ 18 to +30	Volts
Output Impedance, Typ	100 Ω	100	Ω
Bias Voltage	+7.5 to +11.5 VDC	+7.5 to +11.5	VDC
Discharge Time Constant	0.1 to 0.3 Sec	0.1 to 0.3	Sec

**This family also includes:**

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
3030B4	10	2 to 10000	0.5 to 1	-60 to 250
3030B5H	10	5 to 10000	0.1 to 0.3	-60 to 325

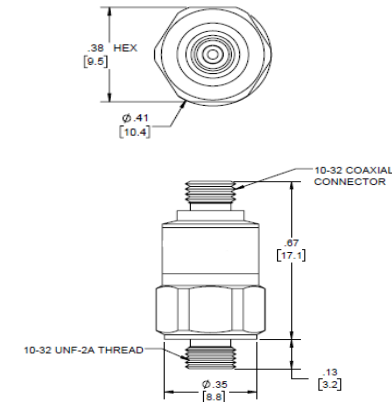
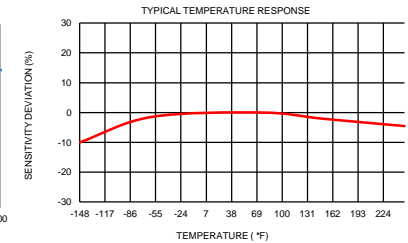
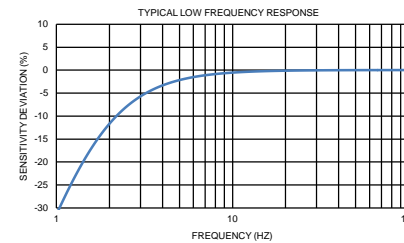
Please refer to the performance specifications of the products in this family for detailed description

**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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3030B for more information.



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