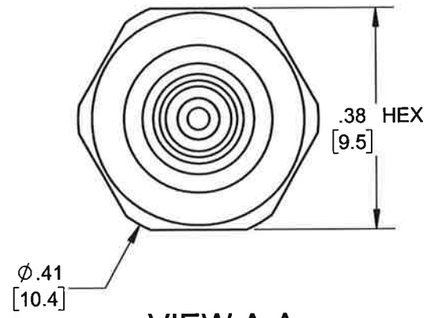
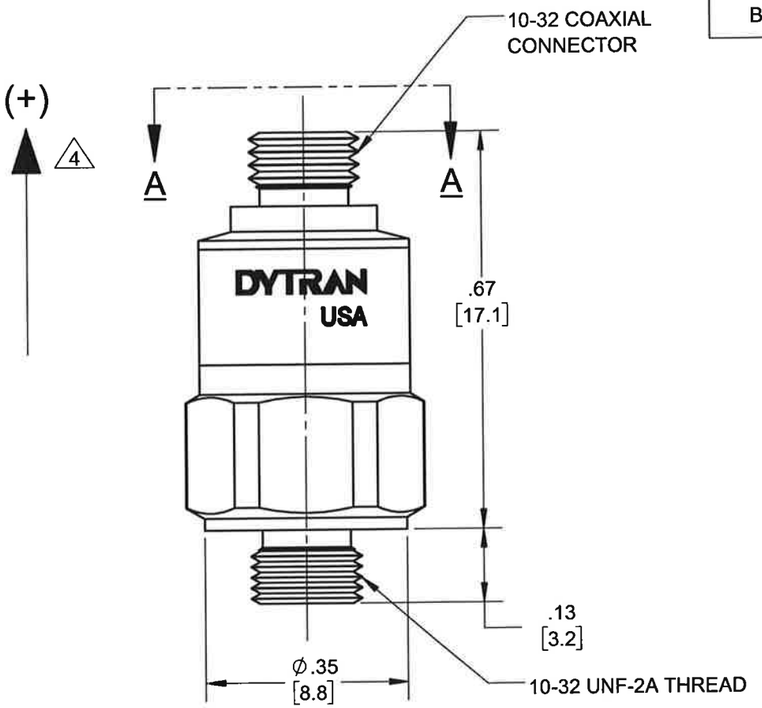
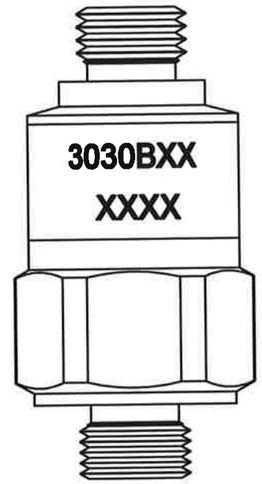
REVISIONS					
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	12932	REDRAWN IN SOLIDWORKS	RA, 09/09/16	EM	W

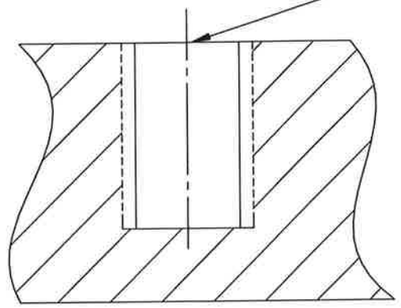


VIEW A-A
SCALE 4 : 1





REAR VIEW



MOUNTING RECOMENDATIONS:PREPARE FLAT 2 3
MOUNTING SURFACE Ø.50 [12.7] MIN, FLAT TO .001TIR. DRILL AND TAP 10-32 UNF-2B ↧.15 [3.8] MIN.
RECOMMENDED MOUNTING TORQUE: 15 LB IN +0/-5 LB IN

4 ARROW INDICATES SENSE AND DIRECTION OF ACCELERATION FOR POSITIVE - GOING OUTPUT SIGNAL

3 PREPARE FLAT SURFACE TO THIS DIA. WITH A FINISH OF 63 OR BETTER AND FLAT TO .001 TIR.

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 ±.03	.X ± 0.8	±1°
.XXX ±.010	.XX ±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 USA

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE: OUTLINE/INSTALLATION DRAWING, 3030B SERIES

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3030B	B

SCALE: 2:1 SHEET 1 OF 1

172-0186 REV A

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

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

		ENGLISH		SI	
PHYSICAL					
Weight		0.25	oz	7.2	grams
Size	Hex x Height	0.375 x 0.67	Inches	9.525 x 17.01	mm
Connector	Top Mounted	10-32 Micro Coax		10-32 Micro Coax	
Mounting Provision	Integral Stud	10-32 (UNF-2A)		10-32 (UNF-2A)	
Material	Accelerometer and Connector	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^2
Range F.S for ± 5 Volts Output		±500	g	±4905	m/s^2
Frequency Response, ±5%		2 to 10000	Hz	2 to 10000	Hz
Resonant Frequency, Nom		30	kHz	30	kHz
Equivalent Electrical Noise Floor		0.0036	Grms	0.035	m/s^2 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^2/με
ENVIRONMENTAL					
Maximum Vibration		±1000	Gpeak	±9810	m/s^2 peak
Maximum Shock		±3000	Gpeak	±29430	m/s^2 peak
Temperature Range		-60 to+250	°F	-51 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 Impedence,Typ		100	Ω	100	Ω
Bias Voltage		7.5 to 11	VDC	7.5 to 11	VDC
Discharge Time Constant		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

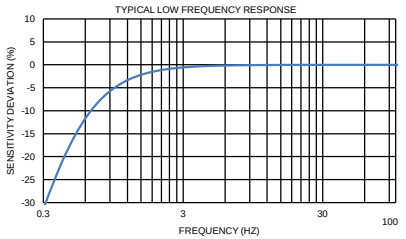
Please refer to the performance specifications of the products in this family for detailed description

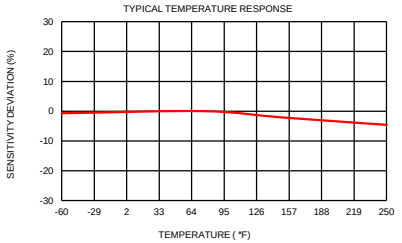
Supplied Accessories:

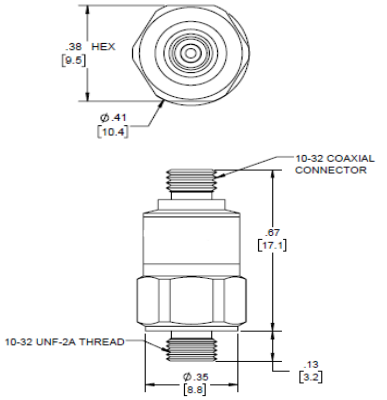
1) Accredited calibration certificate (ISO 17025)

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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