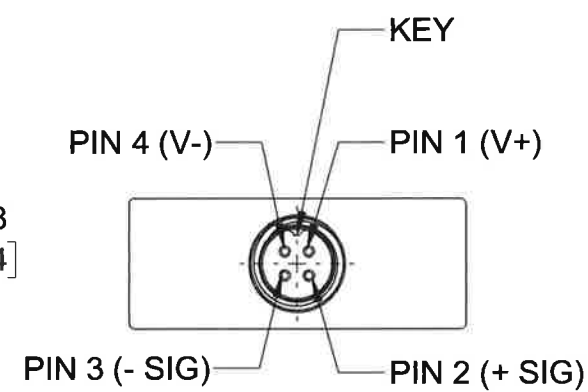
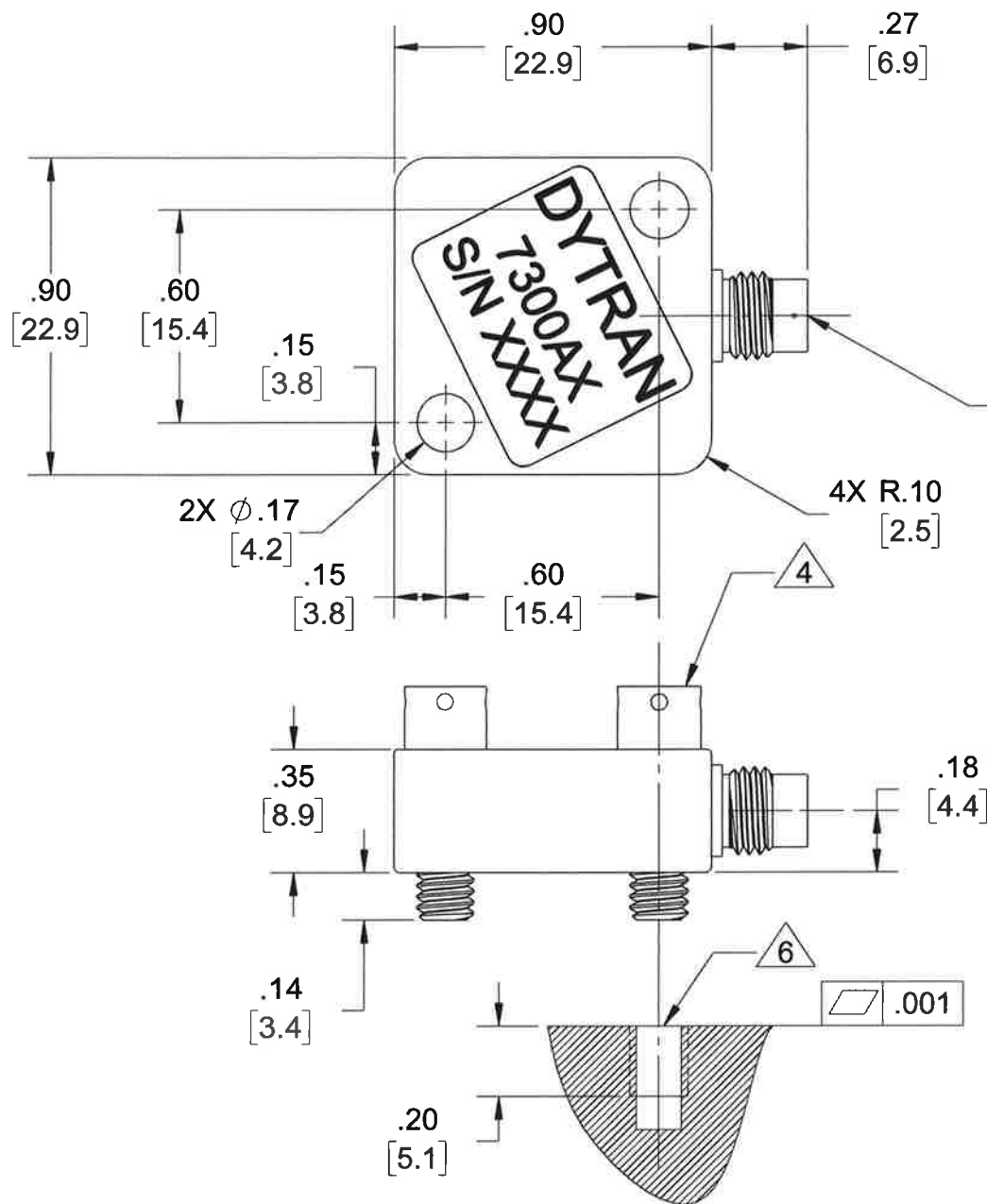


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11030	INITIAL RELEASE	NDC 08/13/14	RT	DV
B	11746	NOTE 5 IS: ... CABLE PN 6854AXX OR 6877AXX WAS: CABLE PN 6430XX OR 6483XX.	LA 02/09/15	JS	LN
C	11865	CONECTOR IS:120-0146-01 WAS: 120-0104-01	EM 04/16/15	LA	DV
D	12423	NOTE 4 WAS: ...MODEL 6535 (2X) & 6692 (2X) ...	LA 01/05/16	LN	AS
E	13382	SEE ECN	RA, 03/27/17	MH	LN



MODEL NO	REV	ECN	DATE	RANGE
7300A1	E	13382	03/27/17	±2g
7300A2	E	13382	03/27/17	±5g
7300A3	E	13382	03/27/17	±10g
7300A4	E	13382	03/27/17	±25g
7300A5	E	13382	03/27/17	±50g
7300A6	E	13382	03/27/17	±100g
7300A7	E	13382	03/27/17	±200g
7300A8	E	13382	03/27/17	±400g

- 6 MOUNTING RECOMMENDATIONS:
PREPARE FLAT MOUNTING SURFACE EQUAL OR BETTER THAN .001 TIR.
TAP 8-32 UNC-2B ∇ .200 MIN. (OR 2X M4x0.7 ∇ .20 [5.1] MIN.)
RECOMMENDED TORQUE 10-12 LB-IN. (1.12 - 1.35 N-m).
- 5 MATES WITH DYTRAN CABLE PN 6854AXX OR 6877AXX.
- 4 MOUNTING SCREW DYTRAN MODEL 6535 (2X) & 6692A12 (2X) PROVIDED.
- 3. HOUSING MATERIAL: ALUMINUM ALLOY, ANODIZED, COLOR: BLUE.
- 2. OPERATING TEMPERATURE: -67°F TO +257°F. (-55°C TO +125°C)
- 1. WEIGHT: 12 GRAMS MAX.

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.

63/
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	AB	08/12/13
CHK	RT	09/29/14
APP	DV	10/08/14

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION
USA

DYTRAN MASTER
INSTRUMENTS, INC. ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION
DRAWING, 7300A**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-7300A	E

SCALE: 1:4 SHEET 1 OF 1

Model Number 7300A7	PERFORMANCE SPECIFICATION			DOC NO PS7300A7
	VARIABLE CAPACITANCE ACCELEROMETER			REV J. ECN 14178, 04/30/18



- VARIABLE CAPACITANCE ACCELEROMETER
- DIFFERENTIAL MODE
- DC RESPONSE

PHYSICAL

Weight, Max
Mounting Thru Holes
Material
Connector

ENGLISH		SI	
0.4	oz	12	grams
2 X Ø.16		2 X Ø.16	
Aluminum, Anodized		Aluminum, Anodized	
1/4-28, 4 pin		1/4-28, 4 pin	

PERFORMANCE

Input Range
Frequency Response, ±3dB, Min
Resonant Frequency
Sensitivity Differential, ±10% [1]
Output Noise, Differential, Typ
Non-Linearity, Max [3]
Transverse Sensitivity, Max
Scale Factor Calibration Error, Max
Zero Measured Output

±200	g	±1961.3	m/s ²
0-1750	Hz	0-1750	Hz
>3500	Hz	>3500	Hz
20	mV/g	2.0	mV/m/s ²
200	µg rms/√Hz	1,962	µm/s ² /√Hz
0.5	% F.S	0.5	% F.S
3	%	3	%
1	%	1	%
±50	mV	±50	mV

ENVIRONMENTAL

Maximum Mechanical Shock
Bias Temperature Shift, Max [2]
Bias Calibration Error, Max
Operating Temperature Range
Scale Factor Temperature Shift [2]
Seal

5000	gpk	49050	m/s ² peak
111	(ppm of span)/°F	200	(ppm of span)/°C
.5	% of span	.5	% of span
-67 to +257	°F	-55 to +125	°C
-111 to 111	ppm/°F	-200 to 200	ppm/°C
Epoxy		Epoxy	

ELECTRICAL

Output Common Mode Voltage, TYP
Output Impedance, Nom
Operating Voltage
Operating Current (AOP & AON open)
Power Supply Rejection Ratio
Case Isolated

2.45		2.45	
90	Ω	90	Ω
+5 to +32	VDC	+5 to +32	VDC
12 to 14	mA DC	12 to 14	mA DC
>65	dB	>65	dB
30	MΩ	30	MΩ

This family also includes:

Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (mV/g)	Max.Shock (gpk)	Noise Differential (µg rms/√Hz)
7300A1	± 2	0-300	2,000	2000	7
7300A2	± 5	0-400	800	2000	12
7300A3	± 10	0-600	400	5000	18
7300A4	± 25	0-900	160	5000	25
7300A5	± 50	0-1200	80	5000	50
7300A6	± 100	0-1400	40	5000	100
7300A8	± 400	0-2000	10	5000	400

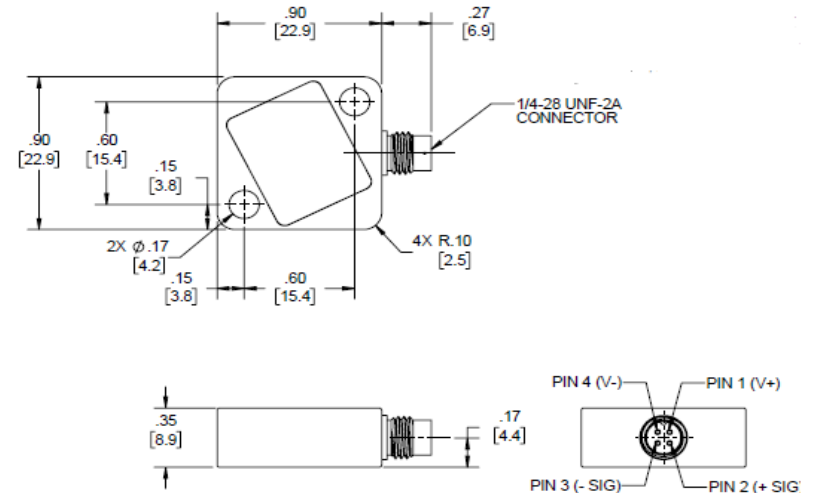
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Two mounting screws model # 6535
- 3) Two mounting screws model # 6692A12

Notes:

- [1] Single ended sensitivity is half of values shown.
- [2] Over the rated temperature range.
- [3] -90% to +90% of Full Scale.
- [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, dimensions in brackets [] are in millimeters. Refer to 127-7300A for more information.



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