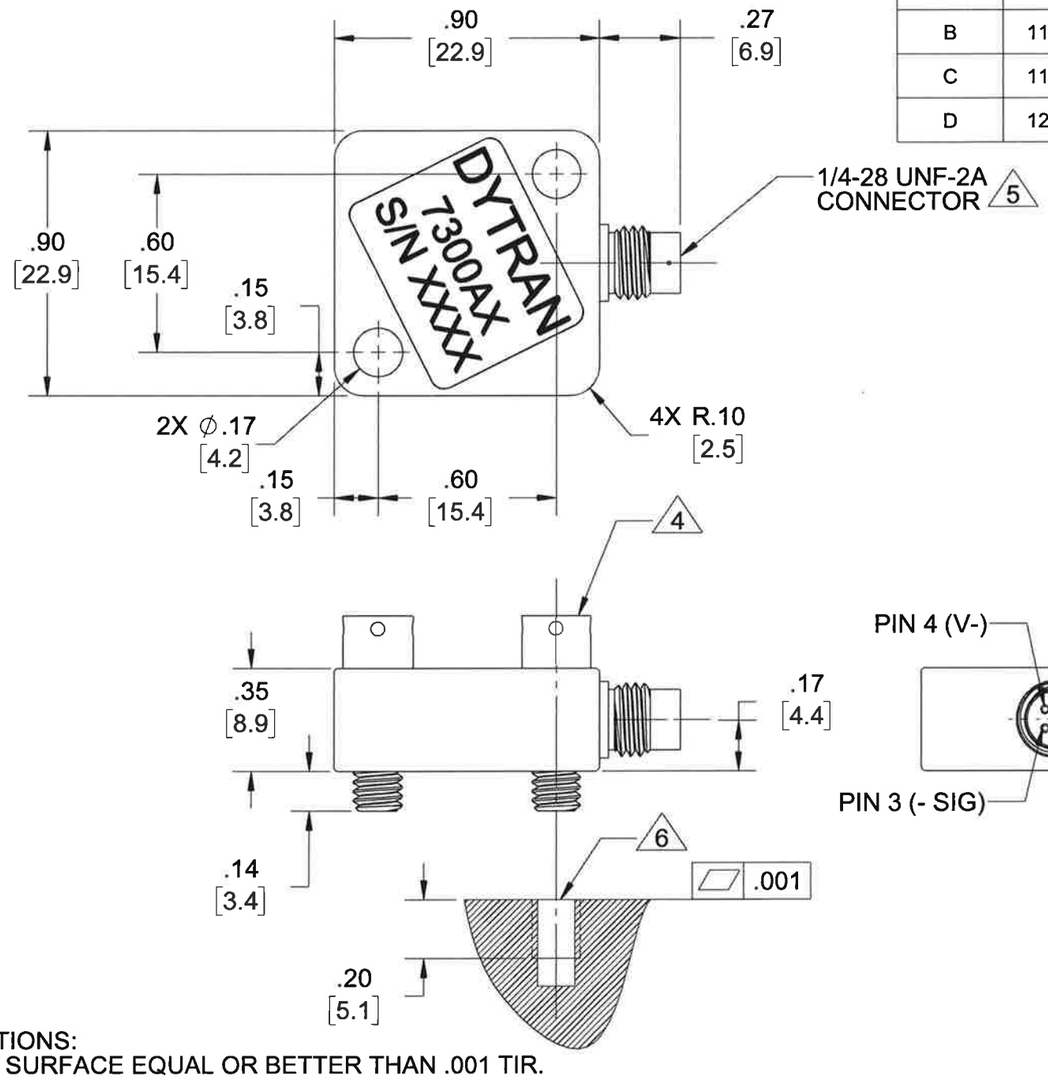
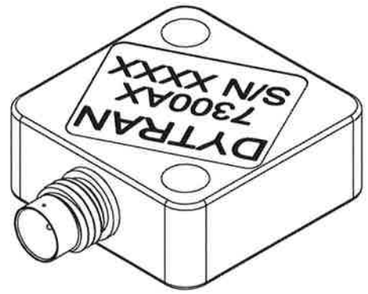
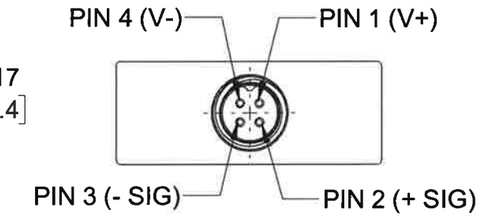
DWG NO 127-7300A SH 1 REV D

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		AS







MODEL NO	REV	ECN	DATE	RANGE
7300A1	D	12423	01/05/16	±2g
7300A2	D	12423	01/05/16	±5g
7300A3	D	12423	01/05/16	±10g
7300A4	D	12423	01/05/16	±25g
7300A5	D	12423	01/05/16	±50g
7300A6	D	12423	01/05/16	±100g
7300A7	D	12423	01/05/16	±200g
7300A8	D	12423	01/05/16	±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. (-19°C TO +125°C)
1. WEIGHT: 13 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 INSTRUMENTS, INC. Chatsworth, CA

MASTER
ONLY IF IN RED

TITLE: OUTLINE/INSTALLATION DRAWING, 7300A

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

SCALE: 1:4 SHEET 1 OF 1

172-0186 REV A

Model Number 7300A5	PERFORMANCE SPECIFICATION	DOC NO PS7300A5
	VARIABLE CAPACITANCE ACCELEROMETER	REV H, ECN 13117, 11/18/16

- **VARIABLE CAPACITANCE ACCELEROMETER**
- **DIFFERENTIAL MODE**
- **DC RESPONSE**

		ENGLISH		SI	
PHYSICAL					
Weight, Max		0.4	oz	12	grams
Mounting	Thru Holes	2 X Ø.16		2 X Ø.16	
Material		Aluminum, Anodized		Aluminum, Anodized	
Connector		1/4-28, 4pin		1/4-28, 4pin	
PERFORMANCE					
Input Range		±50	g	±490.33	m/s^2
Frequency Response, ±3dB		0-2000	Hz	0-2000	Hz
Resonant Frequency		>2200	Hz	>2200	Hz
Sensitivity Differential, ±10% [1]		80	mV/g	8.2	$mV/m/s^2$
Output Noise, Differential, Typ		50	µ g rms/√ Hz	491	µ m/s^2 /√ Hz
Non-Linearity, Max [3]		0.5	% F.S	0.5	% F.S
Transverse Sensitivity, Max		3	%	3	%
Scale Factor Calibration Error, Max		1	%	1	%
Zero Measured Output		±50	mV	±50	mV
ENVIRONMENTAL					
Maximum Mechanical Shock		5000	gpk	49050	m/s^2 peak
Bias Temperature Shift, Max [2]		111	(ppm of span)/°F	200	(ppm of span)/°C
Bias Calibration Error, Max		.5	% of span	.5	% of span
Operating Temperature Range		-67 to +257	°F	-55 to +125	°C
Scale Factor Temperature Shift [2]		-111 to 111	ppm/°F	-200 to 200	ppm/°C
Seal		Epoxy		Epoxy	
ELECTRICAL					
Output Common Mode Voltage, TYP		2.45		2.45	
Output Impedence, Nom		90	Ω	90	Ω
Operating Voltage		+5 to +32	VDC	+5 to +32	VDC
Operating Current (AOP & AON open)		12 to 14	mA DC	12 to 14	mA DC
Power Supply Rejection Ratio		>65	dB	>65	dB
Case Isolated		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	0-400	2,000	2000	7
7300A2	± 5	0-600	800	2000	12
7300A3	± 10	0-1000	400	5000	18
7300A4	± 25	0-1500	160	5000	25
7300A6	± 100	0-2500	40	5000	100
7300A7	± 200	0-1750	20	5000	200
7300A8	± 400	0-2000	10	5000	400

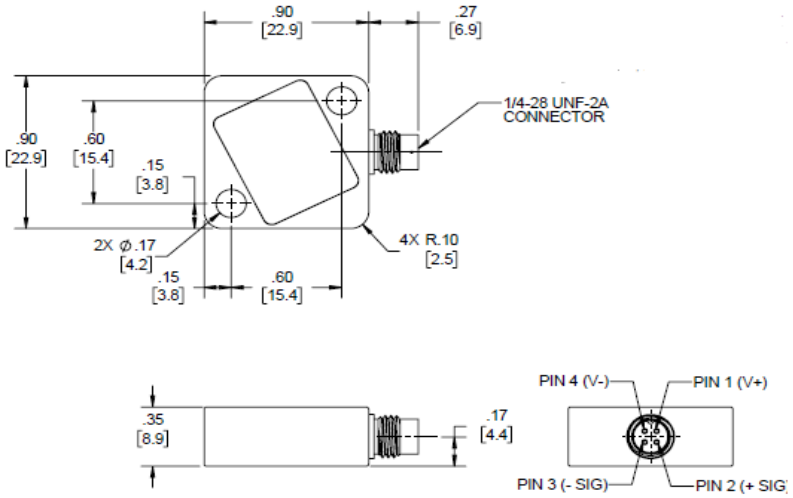
Refer to the performance specifications of the products in this family for detailed description.

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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