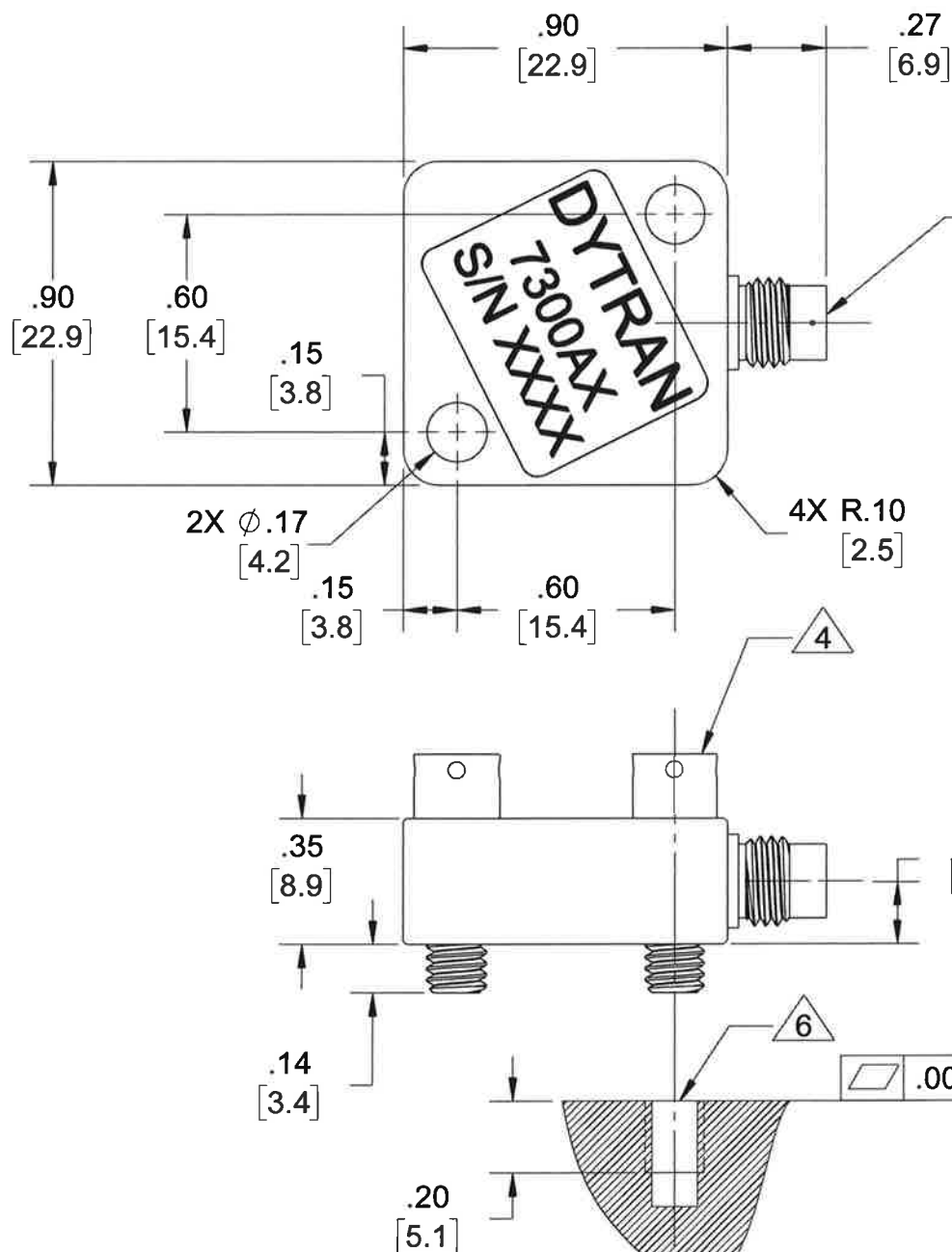


PROPRIETARY AND CONFIDENTIAL

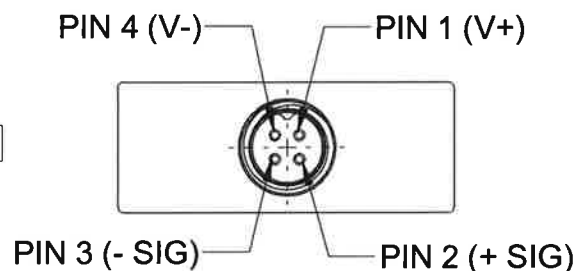
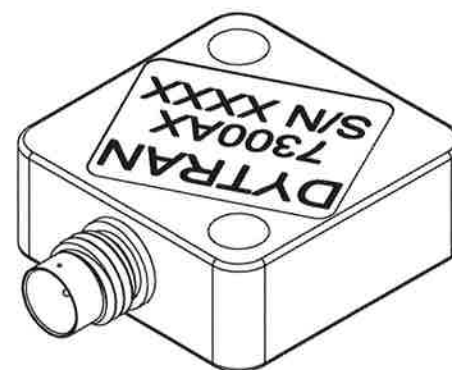
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REVISIONS

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	AS	AS



1/4-28 UNF-2A
CONNECTOR



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

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 ±1°
.XX ±.03		.X ± 0.8		
.XXX ±0.10		.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.		MASTER ONLY IN RED	
TITLE: OUTLINE/INSTALLATION DRAWING, 7300A			
SIZE B	CAGE CODE 2W033	DWG NO 127-7300A	REV D
SCALE: 1:4		SHEET 1 OF 1	

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.

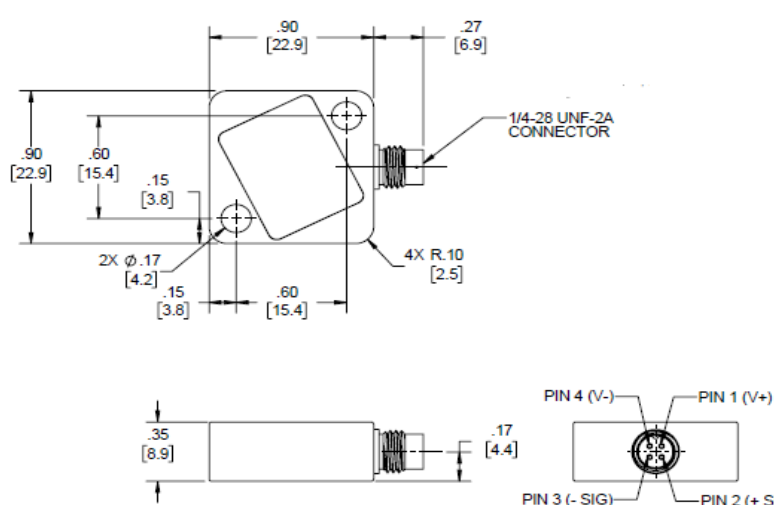
4 MOUNTING SCREW DYTRAN MODEL 6535 (2X) & 6692A12 (2X) PROVIDED.

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

Model Number 7300A8		PERFORMANCE SPECIFICATION				DOC NO PS7300A8																																																	
		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, 4 pin		1/4-28, 4 pin																																																			
PERFORMANCE																																																							
Input Range		±400	g	±3922.7	m/s ²																																																		
Frequency Response, ±3dB, Min		0-2000	Hz	0-2000	Hz																																																		
Resonant Frequency		>4000	Hz	>4000	Hz																																																		
Sensitivity Differential, ±10% [1]		10	mV/g	1.0	mV/m/s ²																																																		
Output Noise, Differential, Typ		400	µ g rms/√ Hz	3,924	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: <table><tr><th>Model</th><th>Input Range (g)</th><th>Frequency response (Hz)</th><th>Sensitivity Differential, ±10% (mV/g)</th><th>Max.Shock (gpk)</th><th>Noise Differential (µg rms/√Hz)</th></tr><tr><td>7300A1</td><td>± 2</td><td>0-400</td><td>2,000</td><td>2000</td><td>7</td></tr><tr><td>7300A2</td><td>± 5</td><td>0-600</td><td>800</td><td>2000</td><td>12</td></tr><tr><td>7300A3</td><td>± 10</td><td>0-1000</td><td>400</td><td>5000</td><td>18</td></tr><tr><td>7300A4</td><td>± 25</td><td>0-1500</td><td>160</td><td>5000</td><td>25</td></tr><tr><td>7300A5</td><td>± 50</td><td>0-2000</td><td>80</td><td>5000</td><td>50</td></tr><tr><td>7300A6</td><td>± 100</td><td>0-2500</td><td>40</td><td>5000</td><td>100</td></tr><tr><td>7300A7</td><td>± 200</td><td>0-1750</td><td>20</td><td>5000</td><td>200</td></tr></table>						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	7300A5	± 50	0-2000	80	5000	50	7300A6	± 100	0-2500	40	5000	100	7300A7	± 200	0-1750	20	5000	200
Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (mV/g)	Max.Shock (gpk)	Noise Differential (µg rms/√Hz)																																																		
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7300A6	± 100	0-2500	40	5000	100																																																		
7300A7	± 200	0-1750	20	5000	200																																																		
		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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