
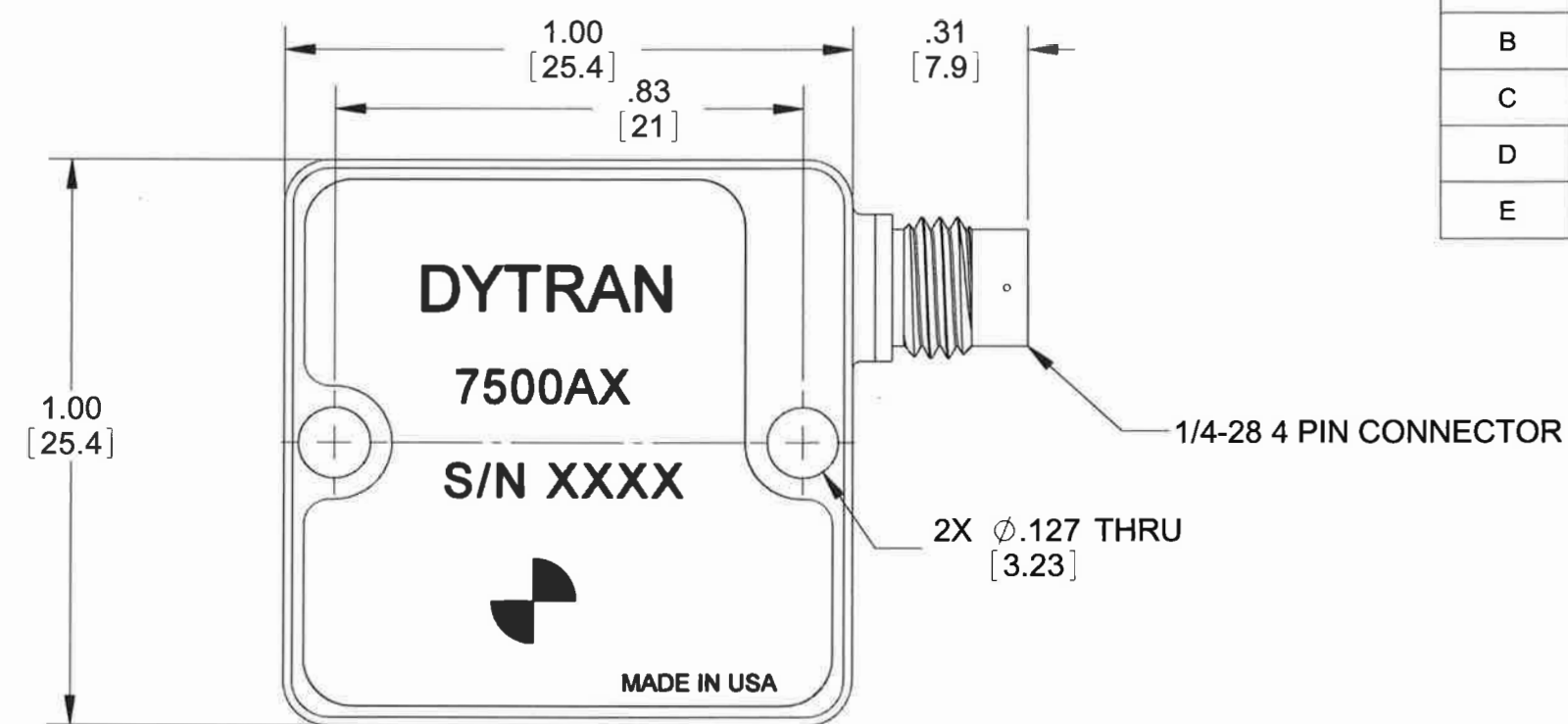
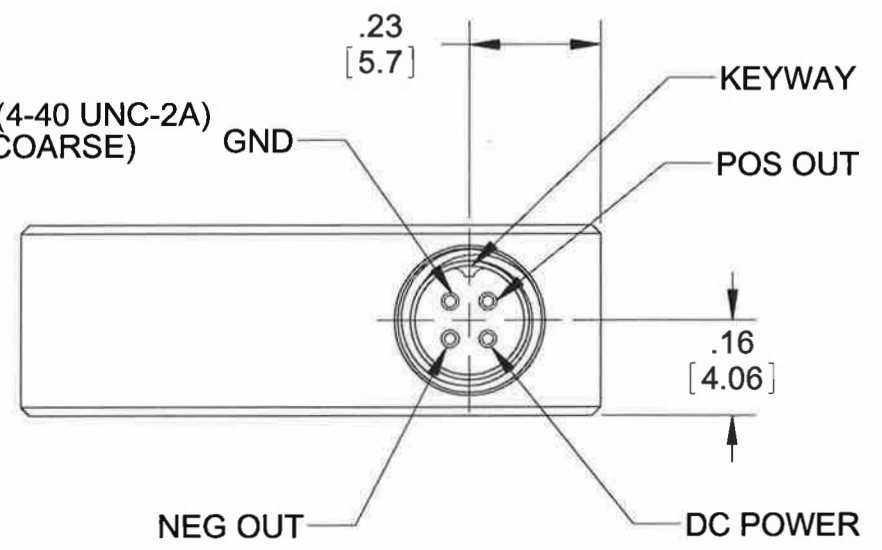
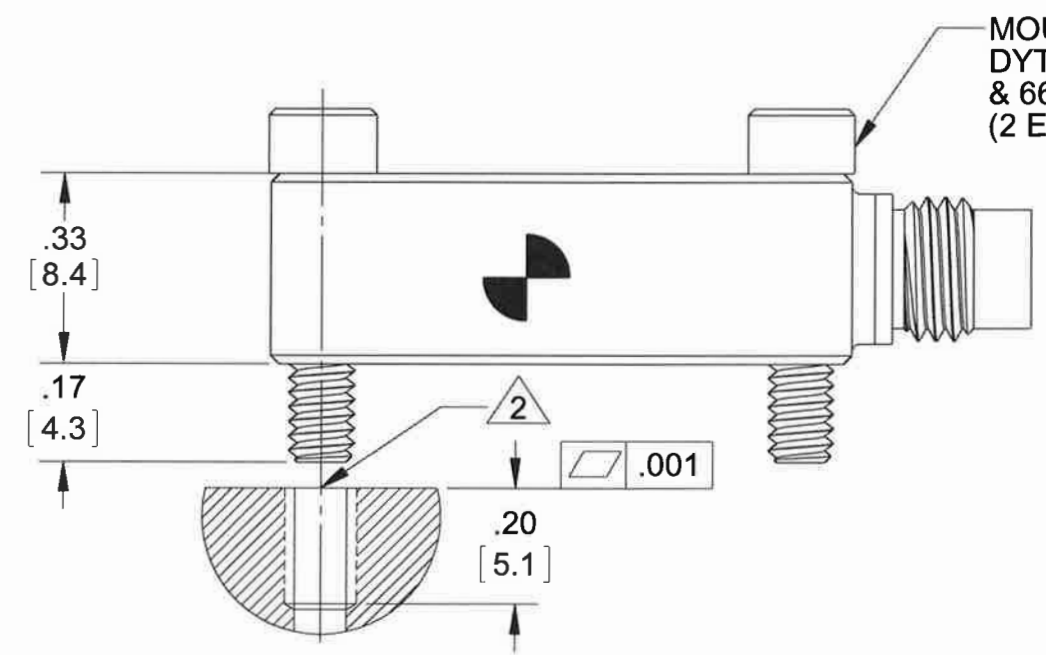



REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5839	.31 WAS: .24	JS 03/12/09	RA	DV
C	8563	ADDED "MADE IN USA" MARKING	JS 04/27/12	LN	DV
D	9573	ADDED MOUNTING SCREW DYTRAN MODEL 6868 (2 PROVIDED)	RA, 02/08/13	LN	DV
E	11218	ADDED NOTE  & 2X 6688 M3 SCREW	EC 08/08/14	JS	EP



MODEL NO.	REV	ECN	RANGE
7500A1	E	11218	2g
7500A2	E	11218	5g
7500A3	E	11218	10g
7500A4	E	11218	25g
7500A5	E	11218	50g
7500A6	E	11218	100g
7500A7	E <td>11218</td> <td>200g</td>	11218	200g
7500A8	E	11218	400g




 **MOUNTING RECOMENDATIONS:**  
 PREPARE A SURFACE TO A FLATNESS EQUAL OR BETTER THAN .0001 TIR. TAP 4-40 UNC-2B  $\nabla$  .200 MIN. OR TAP M3X.5 ISO 6H COARSE  $\nabla$  5.1 MIN. RECOMMENDED TORQUE 10-12 LB-IN.

1. DIMENSIONS IN BRACKETS [X.XX] ARE IN MILLIMETERS.

NOTES: UNLESS OTHERWISE SPECIFIED

DRILL HOLE SIZE	TOLERANCE	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. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.
.0135 THRU .125	+ .004 / - .001	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.
.1260 THRU .250	+ .005 / - .001	
.2510 THRU .500	+ .006 / - .001	
.5010 THRU .750	+ .008 / - .001	
.7510 THRU 1.000	+ .010 / - .001	
1.001 THRU 2.000	+ .012 / - .001	

THIRD ANGLE PROJECTION USA 

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS .XX ± .010 .XXX ± .005 ANGLES ± 1°	CONTRACT NO.
MATERIAL: TITANIUM	APPROVALS
FINISH:	DATE
DO NOT SCALE DRAWING	ORIG TMD 8/16/06 CHK CES 05/23/07 APP CES 05/23/07 APP DV 02/18/13

**MASTER COPY IF IN RED**  
 Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, VARIABLE CAPACITANCE ACCELEROMETER MODEL 7500A**

SIZE **B** CAGE CODE **2W033** DWG NO **127-7500A** REV **E**

SCALE: 4:1 SOLIDWORKS SHEET 1 of 1



- VARIABLE CAPACITANCE ACCELEROMETER
- DIFFERENTIAL MODE
- HERMETICALLY SEALED
- DC RESPONSE

**This family also includes:**

Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (mV/g)	Max.Shock (gpk)	Noise Differential (µg rms/√Hz)
7500A2	± 5	0-600	400	2000	9
7500A3	± 10	0-1000	200	2000	10
7500A4	± 25	0-1500	80	2000	25
7500A5	± 50	0-2000	40	2000	50
7500A6	± 100	0-2500	20	2000	100
7500A7	± 200	0-2500	10	2000	200
7500A8	± 400	0-2500	5	2000	400

**PHYSICAL**

Weight, Max  
Connector Type  
Mounting Thru Holes  
Material

ENGLISH		SI	
0.46	oz	13	grams
4-PIN, 1/4-28 UNF-2A		4-PIN, 1/4-28 UNF-2A	
2 X Ø.13		2 X Ø.13	
Titanium Alloy		Titanium Alloy	

**PERFORMANCE**

Input Range  
Frequency Response (-3dB), ± 50Hz  
Sensitivity Differential, ±10% [1]  
Output Noise, Differential, Typ  
Non-Linearity, Max [3]  
Transverse Sensitivity, Max  
Scale Factor Calibration Error, Max

±2	g	±19.62	m/s <sup>2</sup>
0 - 400	Hz	0 - 400	Hz
1,000	mV/g	101.9	mV/m/s <sup>2</sup>
8	µg rms/√ Hz	78	µ m/s <sup>2</sup> /√ Hz
0.5	% Span	0.5	% Span
2	%	2	%
2	%	2	%

**ENVIRONMENTAL**

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

2000	gpk	19620	m/s <sup>2</sup> peak
111	(ppm of span)/°F	200	(ppm of span)/°C
4	% of span	4	% of span
-67 to +257	°F	-55 to +125	°C
-138.9 to +83.3	ppm/°F	-250 to +150	ppm/°C
Hermetic		Hermetic	

**ELECTRICAL**

Output Common Mode Voltage, TYP  
Output Impedence, Nom  
Operating Voltage  
Operating Current (AOP & AON open)  
Power Supply Rejection Ratio  
Ground Isolation

2.45	VDC	2.45	VDC
1	Ω	1	Ω
+9 to +32	VDC	+9 to +32	VDC
12 to 14	mA DC	12 to 14	mA DC
>65	dB	>65	dB
>30	MΩ	>30	MΩ

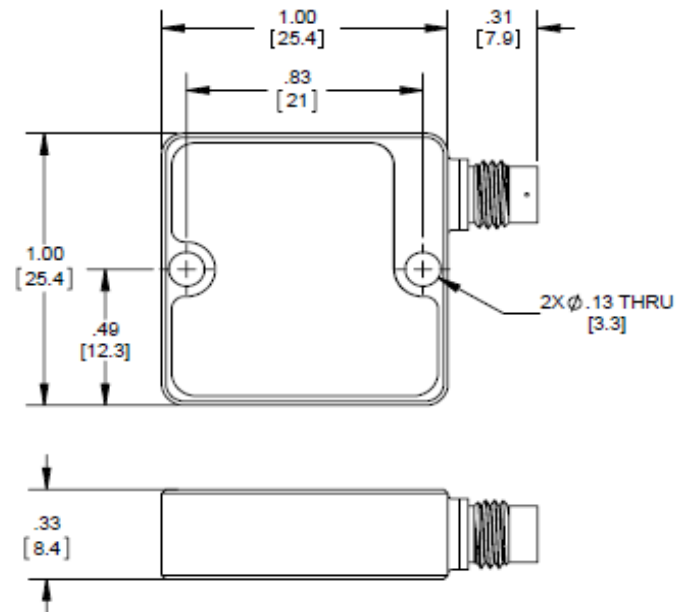
Refer to the performance specifications of the products in this family for detailed description.

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Two mounting screws model # 6868

**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 127-7500A for more information.



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