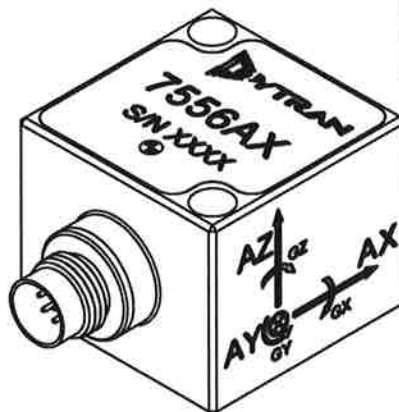
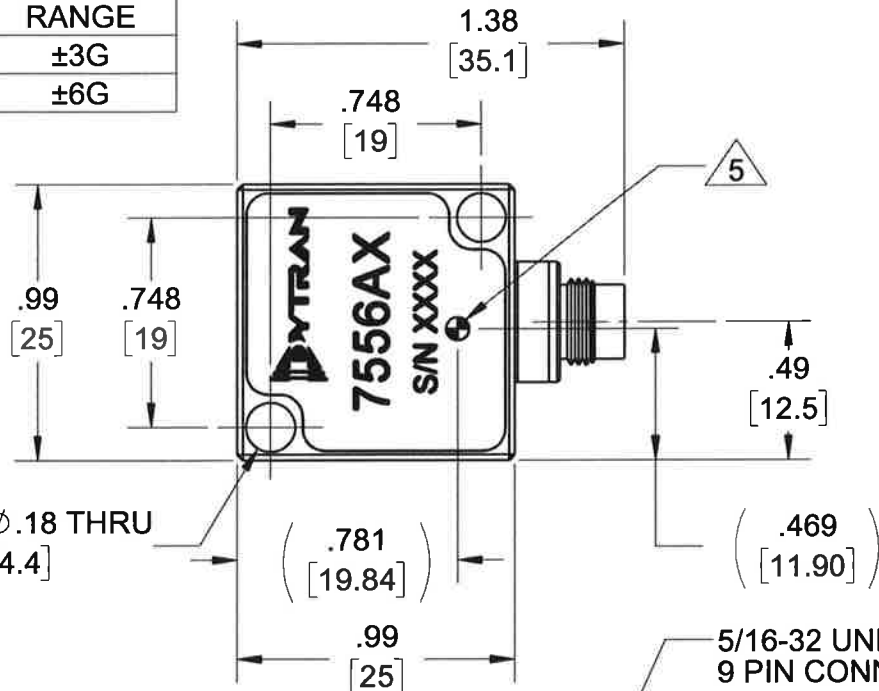


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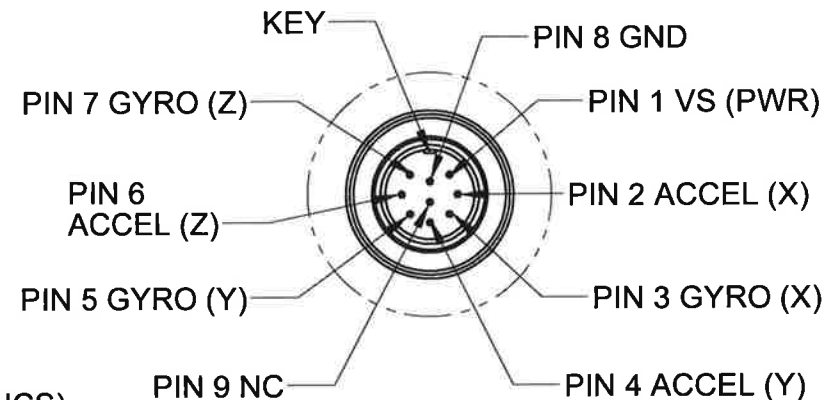
MODEL	RANGE
7556A1	±3G
7556A2	±6G



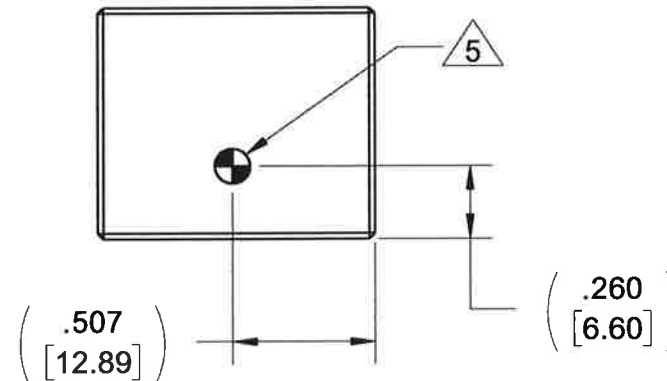
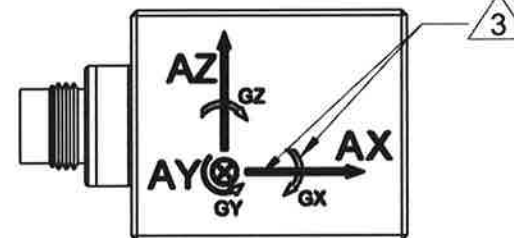
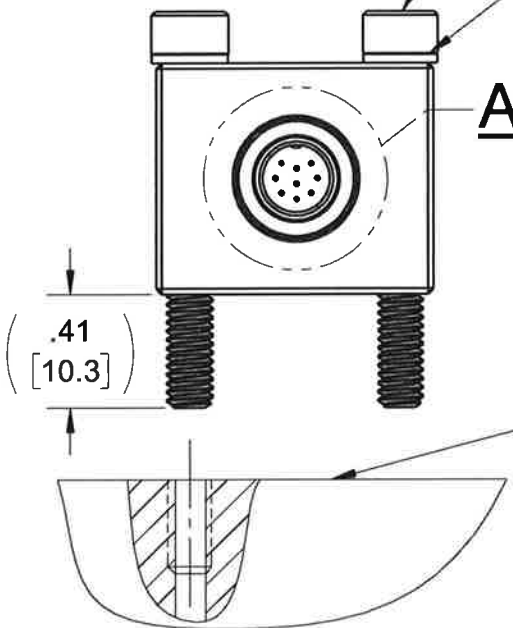
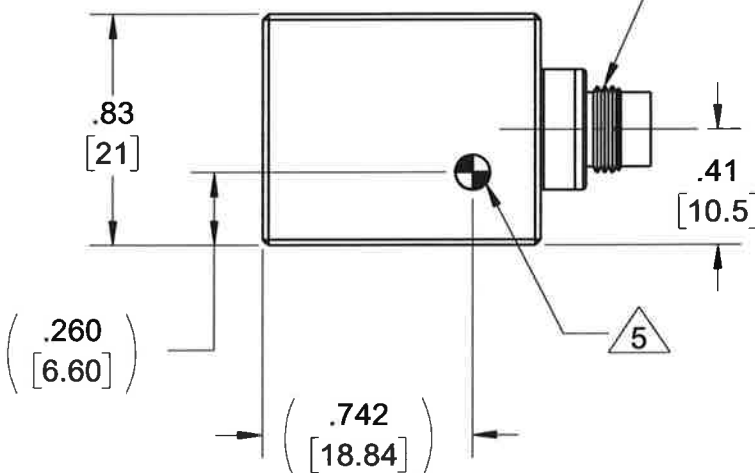
DWG NO 127-7556A SH 1 REV C

REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	12156	INITIAL RELEASE	LN 08/07/15	EP	AS
B	11616	ADDED 6445AXX CABLE TO NOTE 4	LN 09/04/15	DV	EP
C	12796	ADDED MARKINGS TO DENOTE LOCATION OF SENSING ELEMENT	LN 06/30/16	SP	AS



DETAIL A



RECOMMENDED MOUNTING PREPARATION:
PREPARE FLAT MOUNTING SURFACE, $\phi 1.50$ [38.1] MIN, FLAT TO .001 TIR.
TAP 2X 8-32 UNC-2B $\downarrow .45$ [11.4] MIN. (OR 2X M4x0.7 $\downarrow .45$ [11.4] MIN.)
TORQUE TO 10-12 Lb-in. [1.12 - 1.35 N-m]

5 MARKING DENOTES LOCATION OF SENSING ELEMENT

4 MATES WITH DYTRAN CABLES: - 6964AXX (9-PIN TO FLYING LEADS)
- 6445AXX (9-PIN TO 7 BNC PLUGS)
(XX DENOTES LENGTH IN FEET)

3 ARROWS INDICATE GYROSCOPIC & ACCELERATION DIRECTIONS
FOR POSITIVE OUTPUT

2. MATERIAL: TITANIUM ALLOY

1. WEIGHT: 25 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.

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 NDC 03/19/15

CHK EP 08/07/15

APP AS 08/07/15

DO NOT SCALE DRAWING

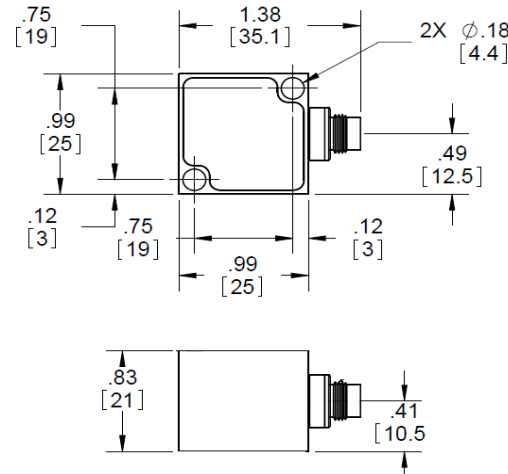
THIRD ANGLE PROJECTION
USA

MASTER
ONLY IF IN RED
DYTRAN INSTRUMENTS, INC.
Chatsworth, CA

TITLE:
**OUTLINE/INSTALLATION DWG,
ANALOG 6 DOF, 7556A SERIES**

SIZE B CAGE CODE 2W033 DWG NO 127-7556A REV C

SCALE: 2:1 SHEET 1 OF 1

Model Number		PERFORMANCE SPECIFICATION				DOC NO	
7556A1						PS7556A1	
		6DOF VIBRATION SENSOR				REV C, ECN 13383, 03/28/17	
		• VARIABLE CAPACITANCE TECHNOLOGY • 6 DEGREES OF FREEDOME MEASUREMENTS • HERMETICALLY SEALED • DC RESPONSE • 0 VOLTS FOR 0 EU NOMINAL OUTPUT • INTERNATIONAL TRAFFIC IN ARMS REGULATION (ITAR) FREE					
		ENGLISH		SI			
PHYSICAL							
Weight, Max	Type	0.9	oz	25	grams		
Connector		5/16-32 UNEF-2A		5/16-32 UNEF-2A			
Material		Titanium Alloy		Titanium Alloy			
ACCELEROMETER PERFORMANCE							
Input Range		±3	g	±29.43	m/s ²		
Frequency Response (3dB), Nom		0 - 800	Hz	0 - 800	Hz		
Sensitivity ±10% [1]		400	mV/g	41	mV/m/s ²		
Output Noise, Typ		0.0001	g rms/√ Hz	0.00098	m/s ² /√ Hz		
Non-Linearity, Max [2]		0.5	% F.S	0.5	% F.S		
Cross Axis Sensitivity, Max		5	%	5	%		
GYRO PERFORMANCE							
Input Range		±300	°/sec	±300	°/sec		
Frequency Response (3dB), Nom		0 - 150	Hz	0 - 150	Hz		
Sensitivity ±10% [1]		3	mV°/sec	3	mV°/sec		
Output Noise, Typ		0.004	(°/sec)/√ Hz	0.004	(°/sec)/√ Hz		
Non-Linearity, Max [2]		0.5	% F.S	0.5	% F.S		
Cross Axis Sensitivity, Max		5	%	5	%		
ENVIRONMENTAL							
Maximum Mechanical Shock (0.1 ms)		500	gpk	4905	m/s ² peak		
Operating Temperature Range		-40 to +185	°F	-40 to +85	°C		
Scale Factor Temperature Shift [3]		±3	%	±3	%		
Seal		Hermetic		Hermetic			
ELECTRICAL							
Output Impedance, Nom.		2	Ω	2	Ω		
Operating Voltage		5 to 30	VDC	5 to 30	VDC		
Bias Voltage		0	VDC	0	VDC		
Operating Current, Typ.		12	mA Dc	12	mA Dc		
Power Supply Rejection Ratio		>65	dB	>65	dB		
		This family also includes:					
Model	Input Range (EU) Accel./Gyro	Frequency response (Hz) Accel./Gyro	Sensitivity , ±10% (mV/EU) Accel./Gyro	Max.Shock (0.1ms), g	Noise (EU/√Hz) Accel./Gyro		
7556A2	±6 / ±1000	0-800 / 0-150	200.0 / 1.0	500	0.0002 / 0.006		
Refer to the performance specifications of the products in this family for detailed description.							
Supplied Accessories:							
1) Accredited calibration certificate (ISO 17025)							
2) Mounting screw model 6753, 8-32 UNF-2A, qty 2							
3) Mounting washer model 6754, qty 2							
4) Mounting screw model 6687, M4 X 0.7, qty 2							
Notes:							
[1] Measured Using Earth Gravity							
[2] Best Fit Zero Based Line Method							
[3] Over the rated temperature range.							
[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 127-7556A for more information.					
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