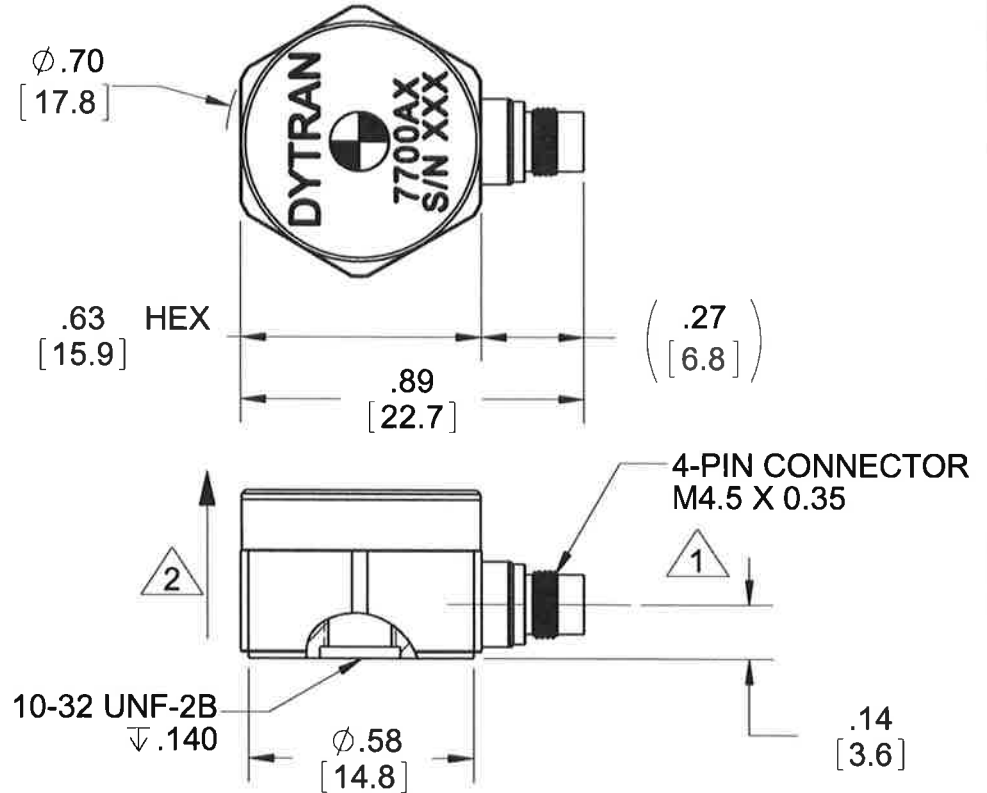
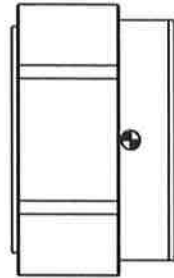


**PROPRIETARY AND CONFIDENTIAL**

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MODEL	RANGE
7700A1	±5G
7700A2	±10G
7700A3	±25G
7700A4	±50G
7700A5	±100G
7700A6	±200G



- 6. WEIGHT: 8 GRAMS MAX
- 5. OPERATING TEMPERATURE RANGE: -40 TO 248 °F [-40 TO 120°C]
- 4. HOUSING/CONNECTOR MATERIAL: TITANIUM ALLOY
- 3 MOUNT USING DYTRAN 6200 MODEL (SUPPLIED)
- 2 ARROW INDICATES DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT
- 1 MATES WITH DYTRAN 6895AXX CABLE (XX = LENGTH IN FEET)

**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. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES    METRIC    ANGLES .XX ± .03    .X ± 0.8    ± 1° .XXX ± .010    .XX ± 0.25
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
ALL MACHINED SURFACES. <sup>63</sup> ✓ 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.	

MATERIAL	DO NOT SCALE DRAWING
FINISH	

CONTRACT NO.	
APPROVALS	DATE
ORIG	DV 02/23/11
CHK	LN 08/14/12
APP	DV 08/21/12
APP	DV 3/30/14

**DYTRAN INSTRUMENTS, INC.** Chatsworth, CA

**MASTER ONLY IF IN RED**

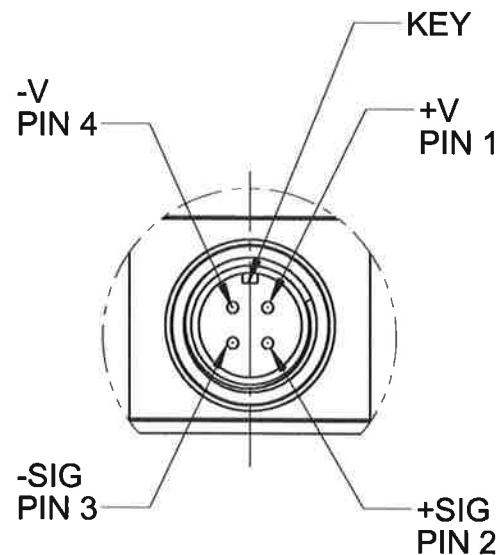
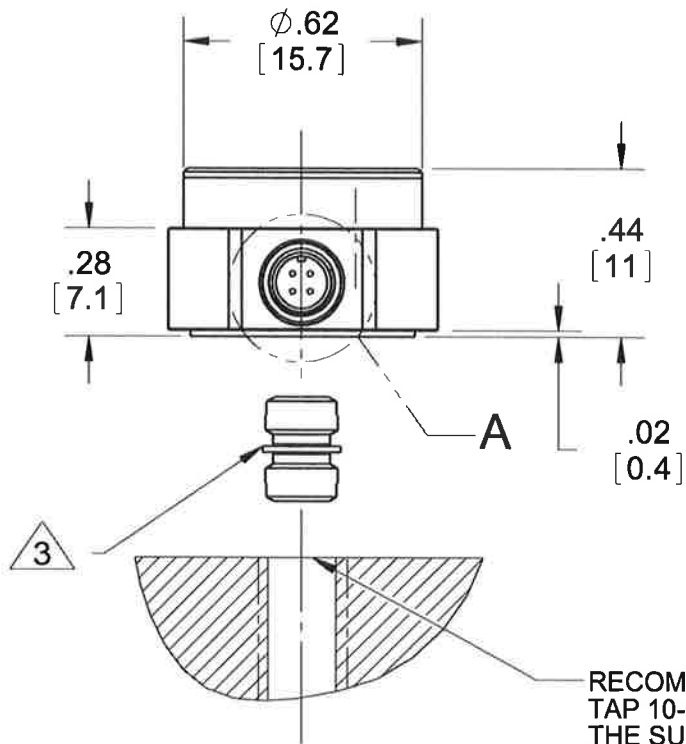
TITLE: **OUTLINE/INSTALLATION DRAWING, 7700 SERIES**

SIZE	CAGE CODE	DWG. NO.	REV
<b>A</b>	<b>2W033</b>	<b>127-7700A</b>	<b>D</b>

SCALE: NONE      SOLIDWORKS      SHEET 1 OF 2

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**DETAIL A**  
**SCALE 4 : 1**

**RECOMMENDED MOUNTING PREPARATION:**  
TAP 10-32 UNF-2B X .160 MIN DEEP. ASSURE THE SURFACE FLATNESS BETTER THAN .001 TIR. MOUNTING TORQUE: 6-8 LB-IN.

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.		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS TOLERANCES ARE: INCHES    METRIC    ANGLES .XX ± .03    .X ± 0.8    ± 1° .XXX ± .010    .XX ± 0.25		CONTRACT NO.		MASTER Chatsworth, CA ONLY IF IN RED			
USED ON	NEXT ASSY	MATERIAL	APPROVALS	DATE	TITLE: <b>OUTLINE/INSTALLATION DRAWING, 7700 SERIES</b>				
APPLICATION		FINISH	ORIG	DV	02/23/11	SIZE	CAGE CODE	DWG. NO.	REV
THIRD ANGLE PROJECTION USA		DO NOT SCALE DRAWING	CHK	LN	08/14/12	<b>A</b>	<b>2W033</b>	<b>127-7700A</b>	<b>D</b>
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.			APP	DV	08/21/12	SCALE: NONE	SOLIDWORKS	SHEET 2 OF 2	



- POWER SUPPLY IDENTICAL TO STRAIN GAGE SENSORS
- VARIABLE CAPACITANCE ACCELEROMETER
- DIFFERENTIAL MODE
- HERMETICALLY SEALED
- DC RESPONSE

**PHYSICAL**

		ENGLISH		SI	
Weight, Max		0.28	oz	8.0	grams
Connector	Type	4-PIN, M4.5 x 0.35 THD		4-PIN, M4.5 x 0.35 THD	
Mounting	Tapped Hole	10-32 UNF-2B		10-32 UNF-2B	
Material		Ti-6Al-4V		Ti-6Al-4V	

**PERFORMANCE**

		ENGLISH		SI	
Input Range		±5	g	±49	m/s <sup>2</sup>
Frequency Response	(±5%)	0-200	Hz	0-200	Hz
	(±3dB)	0-500	Hz	0-500	Hz
Sensitivity Differential, ±5% [1]		100	mV/g	10.2	mV/m/s <sup>2</sup>
Output Noise, Differential, Typ		12	μg rms/v Hz	118	μ m/s <sup>2</sup> /v Hz
Non-Linearity, Max [2]		0.5	% F.S	0.5	% F.S
Sensitivity Change with Excitation Voltage (6-22 Volts)		0.3	%	0.3	%
Cross Axis Sensitivity		< 3	%	< 3	%

**ENVIRONMENTAL**

		ENGLISH		SI	
Maximum Mechanical Shock (0.1 ms)		±2000	gpk	±19620	m/s <sup>2</sup> peak
Bias Temperature Shift, Max [3]		111	(ppm of span)/°F	200	(ppm of span)/°C
Sensitivity Temperature Shift		-139 to +139	ppm/°F	-250 to +250	ppm/°C
Operating Temperature Range		-67 to 257	°F	-55 to 125	°C
Seal		Hermetic		Hermetic	

**ELECTRICAL**

		ENGLISH		SI	
Output Common Mode Voltage ± VDC		[4]		[4]	
Output Impedance, Nom		1225	Ω	1225	Ω
Operating Voltage		±3 to ±11	VDC	±3 to ±11	VDC
Operating Current, Max		13	mA Dc	13	mA Dc
Change in Operating Current to Excitation Voltage		0.25	mA/V	0.25	mA/V

**This family also includes:**

Model	Input Range (g)	Frequency response (Hz) +/-3dB	Sensitivity Differential, ±5% (mV/g)	Max.Shock (0.1ms)	Noise Differential (μg/v/Hz)
7700A2	±10	0-1000	50	5000	18
7700A3	±25	0-1400	20	5000	25
7700A4	±50	0-2000	10	5000	50
7700A5	±100	0-2500	5	5000	100
7700A6	±200	0-3000	2.5	5000	200

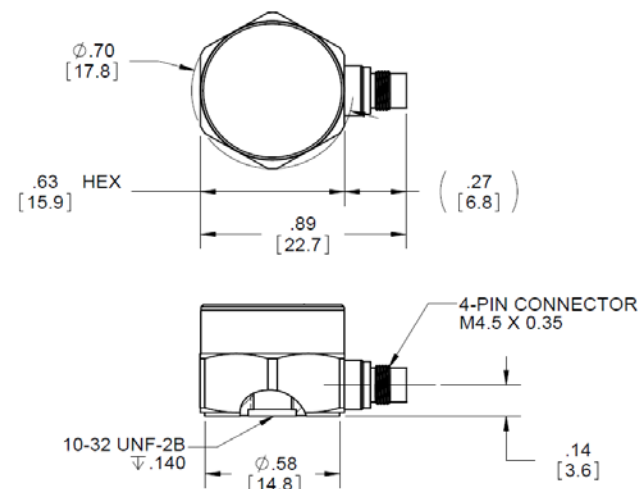
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting stud model # 6200

**Notes:**

- [1] Single ended sensitivity is half of values shown
- [2] -90% to +90% of Full Scale
- [3] Over the rated temperature range
- [4] Bias voltage equal to (+ v - (-v)) / 2
- [5] Mating cable 6895A
- [6] 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 127-7700A for more information.

