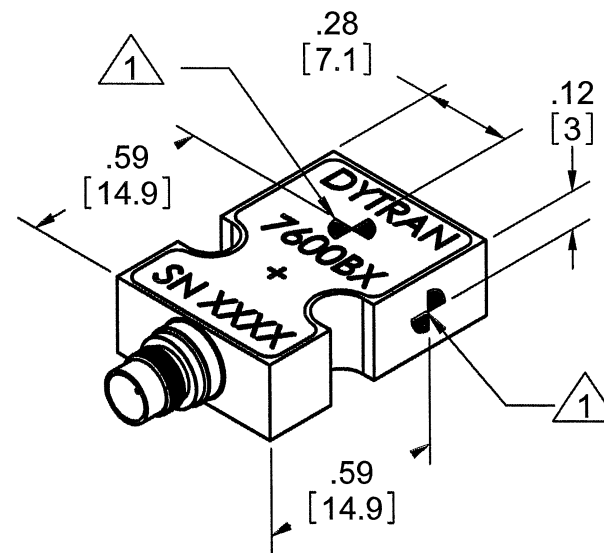
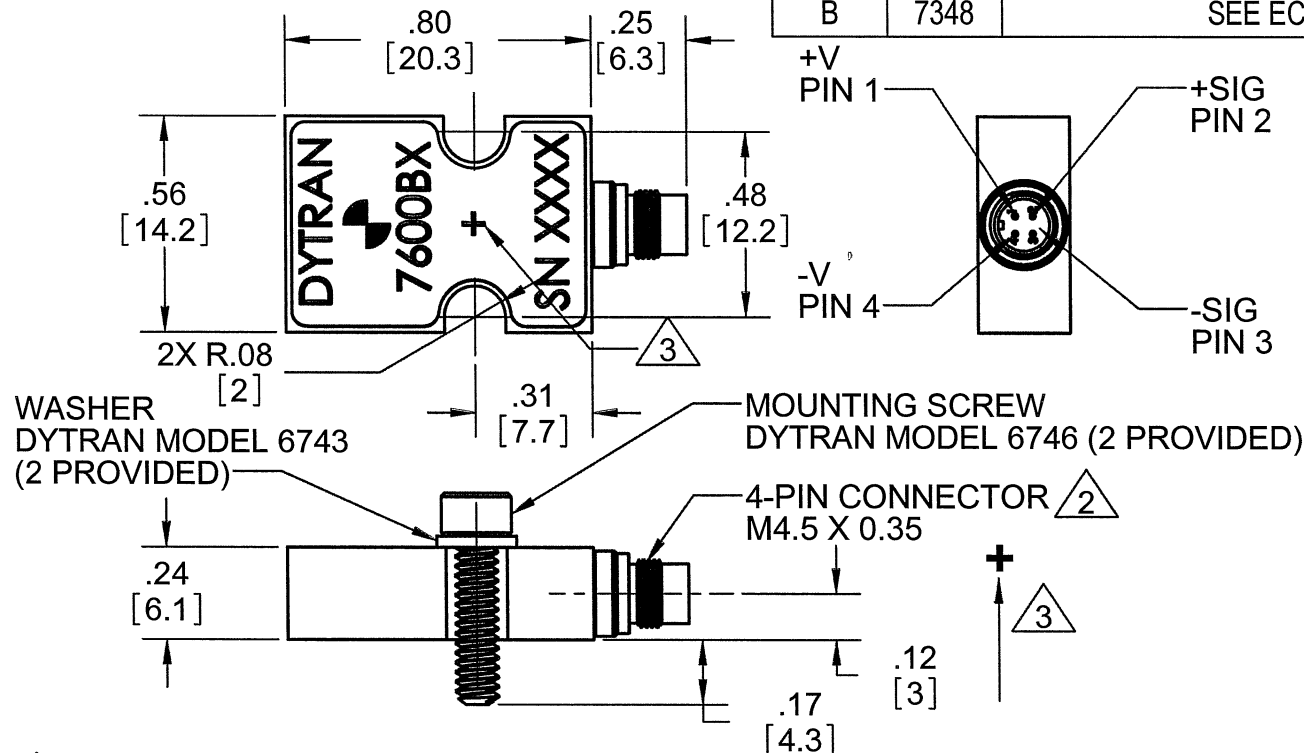


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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6307	INITIAL RELEASE	RA, 06/28/10	EP	DV
B	7348	SEE ECN	JS 01/25/11	✓	ANS



- 3 ARROW & "+" INDICATES DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.
- 2 MATES WITH 6895AXX (XX= LENGTH IN FEET)
- 1 MARKING DENOTES LOCATION OF SENSING ELEMENT.

NOTES: UNLESS OTHERWISE SPECIFIED

MODEL	RANGE
7600B1	±5G
7600B2	±10G
7600B3	±25G
7600B4	±50G
7600B5	±100G
7600B6	±200G


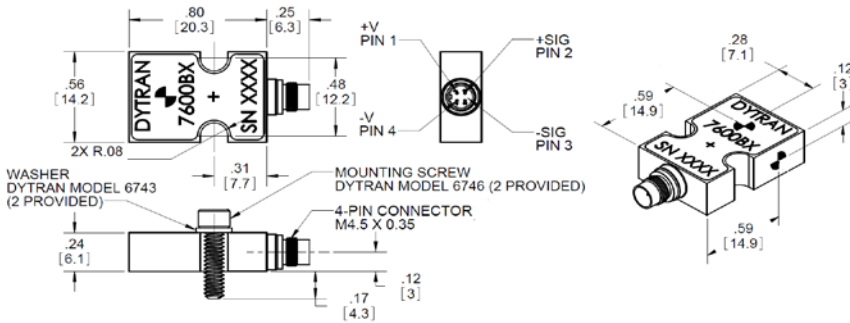
UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.	
7600BX USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
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: INCHES METRIC ANGLES .XX ± .03 .X ± 0.8 ± 1° .XXX ± .010 .XX ± 0.25		
MATERIAL		
FINISH		
DO NOT SCALE DRAWING		

CONTRACT NO.

APPROVALS		DATE
ORIG	RA	10/07/09
CHK	EP	06/28/10
APP	DV	07/16/10
APP		

 DYTRAN INSTRUMENTS, INC.		MASTER ONLY IF IN RED	
Chatsworth, CA			
TITLE: OUTLINE/INSTALATION DRAWING, 7600B SERIES			
SIZE A	CAGE CODE 2W033	DWG. NO. 127-7600B	REV B
SCALE: 2:1		SOLIDWORKS	SHEET 1 OF 1

Model Number 7600B1		PERFORMANCE SPECIFICATION				DOC NO PS7600B1																																																																																																	
		VARIABLE CAPACITANCE ACCELEROMETER				REV C, ECN 7424, 03/25/11																																																																																																	
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		<table><thead><tr><th colspan="2">ENGLISH</th><th colspan="2">SI</th></tr></thead><tbody><tr><td rowspan="5">PHYSICAL Weight, Max Size Connector Mounting Material</td><td>0.1</td><td>oz</td><td>3.6</td><td>grams</td></tr><tr><td>.80 x .56 x .23</td><td>Inches</td><td>20.3 x 14.2 x 5.8</td><td>mm</td></tr><tr><td>4-PIN, M4.5 x 0.35 THD</td><td></td><td>4-PIN, M4.5 x 0.35 THD</td><td></td></tr><tr><td>4-40 X 7/16 LG SHCS</td><td></td><td>4-40 X 7/16 LG SHCS</td><td></td></tr><tr><td>Ti-6Al-4V</td><td></td><td>Ti-6Al-4V</td><td></td></tr><tr><td rowspan="7">PERFORMANCE Input Range Frequency Response (±3dB) Sensitivity Differential, ±5% [1] Output Noise, Differential ,Typ Non-Linearity, Max [2] Sensitivity Change with Excitation Voltage (6-22 Volts) Cross Axis Sensitivity</td><td>±5</td><td>g</td><td>±49</td><td>m/s²</td></tr><tr><td>0-600</td><td>Hz</td><td>0-600</td><td>Hz</td></tr><tr><td>100</td><td>mV/g</td><td>10.2</td><td>mV/m/s²</td></tr><tr><td>9</td><td>μ g rms/v Hz</td><td>88</td><td>μ m/s²/v Hz</td></tr><tr><td>0.5</td><td>% F.S</td><td>0.5</td><td>% F.S</td></tr><tr><td>0.3</td><td>%</td><td>0.3</td><td>%</td></tr><tr><td>< 3</td><td>%</td><td>< 3</td><td>%</td></tr><tr><td rowspan="5">ENVIRONMENTAL Maximum Mechanical Shock (0.1 ms) Bias Temperature Shift ,Max [3] Sensitivity Temperature Shift Operating Temperature Range Seal</td><td>2000</td><td>gpk</td><td>±19620</td><td>m/s² peak</td></tr><tr><td>111</td><td>(ppm of span)/°F</td><td>200</td><td>(ppm of span)/°C</td></tr><tr><td>277</td><td>ppm/°F</td><td>500</td><td>ppm/°C</td></tr><tr><td>-40 to +176</td><td>°F</td><td>-40 to +80</td><td>°C</td></tr><tr><td>Hermetic</td><td></td><td>Hermetic</td><td></td></tr><tr><td rowspan="5">ELECTRICAL Output Common Mode Voltage ± VDC Output Impedence,Nom Operating Voltage Operating Current, Max Change in Operating Current to Excitation Voltage</td><td>[4]</td><td></td><td>[4]</td><td></td></tr><tr><td>1225</td><td>Ω</td><td>1225</td><td>Ω</td></tr><tr><td>±3 to ±11</td><td>VDC</td><td>±3 to ±11</td><td>VDC</td></tr><tr><td>13</td><td>mA Dc</td><td>13</td><td>mA Dc</td></tr><tr><td>0.25</td><td>mA/V</td><td>0.25</td><td>mA/V</td></tr></tbody></table>						ENGLISH		SI		PHYSICAL Weight, Max Size Connector Mounting Material	0.1	oz	3.6	grams	.80 x .56 x .23	Inches	20.3 x 14.2 x 5.8	mm	4-PIN, M4.5 x 0.35 THD		4-PIN, M4.5 x 0.35 THD		4-40 X 7/16 LG SHCS		4-40 X 7/16 LG SHCS		Ti-6Al-4V		Ti-6Al-4V		PERFORMANCE Input Range Frequency Response (±3dB) Sensitivity Differential, ±5% [1] Output Noise, Differential ,Typ Non-Linearity, Max [2] Sensitivity Change with Excitation Voltage (6-22 Volts) Cross Axis Sensitivity	±5	g	±49	m/s ²	0-600	Hz	0-600	Hz	100	mV/g	10.2	mV/m/s ²	9	μ g rms/v Hz	88	μ m/s ² /v Hz	0.5	% F.S	0.5	% F.S	0.3	%	0.3	%	< 3	%	< 3	%	ENVIRONMENTAL Maximum Mechanical Shock (0.1 ms) Bias Temperature Shift ,Max [3] Sensitivity Temperature Shift Operating Temperature Range Seal	2000	gpk	±19620	m/s ² peak	111	(ppm of span)/°F	200	(ppm of span)/°C	277	ppm/°F	500	ppm/°C	-40 to +176	°F	-40 to +80	°C	Hermetic		Hermetic		ELECTRICAL Output Common Mode Voltage ± VDC Output Impedence,Nom Operating Voltage Operating Current, Max Change in Operating Current to Excitation Voltage	[4]		[4]		1225	Ω	1225	Ω	±3 to ±11	VDC	±3 to ±11	VDC	13	mA Dc	13	mA Dc	0.25	mA/V	0.25	mA/V
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		<p>This family also includes:</p> <table><thead><tr><th>Model</th><th>Input Range (g)</th><th>Frequency response (Hz)</th><th>Sensitivity Differential, ±15% (mV/g)</th><th>Max.Shock (0.1ms)</th><th>Noise Differential (μg/vHz)</th></tr></thead><tbody><tr><td>7600B2</td><td>±10</td><td>0-1000</td><td>50</td><td>2000</td><td>10</td></tr><tr><td>7600B3</td><td>±25</td><td>0-1500</td><td>20</td><td>2000</td><td>25</td></tr><tr><td>7600B4</td><td>±50</td><td>0-2000</td><td>10</td><td>2000</td><td>50</td></tr><tr><td>7600B5</td><td>±100</td><td>0-2500</td><td>5</td><td>2000</td><td>100</td></tr><tr><td>7600B6</td><td>±200</td><td>0-3000</td><td>2.5</td><td>2000</td><td>200</td></tr></tbody></table> <p>Please, refer to the performance specifications of the products in this family for detailed description</p> <p>Supplied Accessories:</p> <ol style="list-style-type: none">1) Accredited calibration certificate (ISO 17025)2) Two mounting screws model # 67463) Two mounting washers model # 6743 <p>Notes:</p> <ol style="list-style-type: none">[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. <div></div> <p>Units on the line drawing are in inches. Refer to 127-7600B for more information.</p>						Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±15% (mV/g)	Max.Shock (0.1ms)	Noise Differential (μg/vHz)	7600B2	±10	0-1000	50	2000	10	7600B3	±25	0-1500	20	2000	25	7600B4	±50	0-2000	10	2000	50	7600B5	±100	0-2500	5	2000	100	7600B6	±200	0-3000	2.5	2000	200																																																												
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