

VISIONS			
ΓΙΟΝ	BY/DATE	СНК	APPR
ATIONS, NOTE 7	RA, 01/17/17	МН	LN
DIAGRAM	RA, 08/25/17	МН	LN
LE ASSY	KG 11/11/19	AM	22

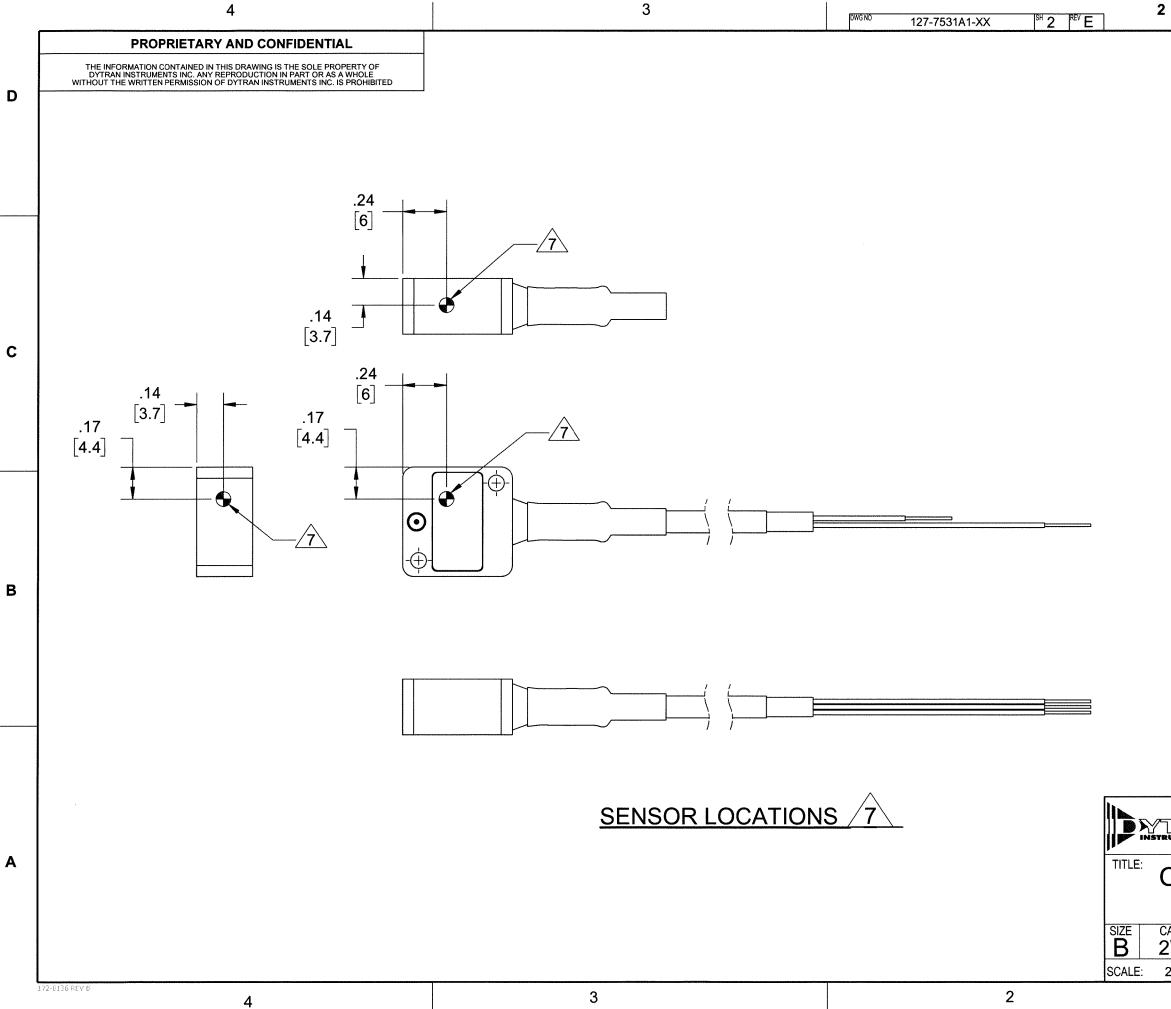
D

С

В

4		NGTH TOLERANC	E
GLI	SH	[ME	TRIC]
	+1/ -0 IN	≤0.3m	+25mm -0mm
Г	+2/ -0 IN	.0.3 m-1.5m	+50mm -0mm
T	+4/ -0 IN	>1.5m-3m	+100mm -0mm
T	+6 / -0 IN	>3m-7.5m	+150mm -0mm
	+50/ / 00/	>7.5m	+ E0/ / 00/

	_
SPECIFICATIONS	
-55 °C TO 120 °C	
PLATED COPPER, SANTOPRENE .007 WALL	
ATED COPPER BRAID, 90% COVERAGE	
OPRENE, .013 NOM. WALL, $ otin .118 \text{ MAX}$	
MASTER	
Chatsworth, CAONLY IF IN RED	
DUTLINE/INSTALLATION DWG,	Α
7531AX SERIES	
CAGE CODE DWG NO 2W033 127-7531A1-XX E	
2:1 SHEET 1 OF 2	
1	



	D
	С
	В
OUTLINE/INSTALLATION DWG, 7531AX SERIES	Α
2W033         127-7531A1-XX         E           2:1         PART NO: 7531AX         SHEET 2 OF         2	
1	

MODEL NUMBER 7531A1	PERFORMANCE SPECIFICATIONS								DOC NO. <b>PS7531A1</b>		
				SINGLE AXIS, DC A	CCELEROMETE	R			REV G, ECN 17146, 05/15/23		
			•		Model	Sensitivity (mV/g)	Frequency Response, -3dB (Hz)	Noise(µGrms/sqr(Hz))	Oper. Temp(°F)		
• 155 •	LOW COST				7531A2	300	0 to 1600	175	-40 to 185		
	• WIDE SUPPL	Y VOLTAGE	RANGE		7531A3	174	0 to 1600	250	-40 to 185		
	LOW CURRE	NT CONSUM	PTION		7531A4	57	0 to 1600	300	-40 to 185		
					7531A5	6.5	0 to 1300	2700	-40 to 185		
PHYSICAL Weight, Max. (less cable)	0.21	SH oz	6.0	grams	Supplied Acces	sories: ibration certificate (IS		amily for detailed descrip	otion		
Mounting Cable Type Material Housing Material Isolation	2X M2 Screws 6-conductor Santoprene Aluminum, Anodized Case Isolated		2X M2 Screws 6-conductor Santoprene Aluminum, Anodized Case Isolated		<u>Notes:</u> [1] All specificatio [2] Measure usin	g zero-based straight	J.4 x 12mm, qty. 2 erature unless otherwise specific t line method, % of F.S. or any le mprovement, we reserve the rig	sser range.	ons without notice.		
ERFORMANCE		-		•					ed in the product specification is		
ensitivity, +/-10% [1]	420	mV/g	42.8	mV/m/s <sup>2</sup>			ion. Parameters provided in data				
Acceleration Range	±2	g pk	±19.6	m/s <sup>2</sup> pk		• •		eters, including typical p	arameters, must be validated for		
Frequency Range, -3dB	0 to 1600	Hz	0 to 1600	Hz	each customer a	pplication by the cust	omer's technical experts.				
Resonance Frequency	>5.5	kHz	>5.5	kHz							
Spectral Noise	250	µg RMS/√Hz	2453	µm/s <sup>2</sup> RMS/√Hz							
Linearity	±0.21	%F.S.	±0.21	%F.S.							
Transverse Sensitivity Max	5	% 0/#F	5	%		50					
Sensitivity Change Due to Temperature ELECTRICAL	±0.006	%°F	±0.01	] %/°C	4X R.06 [1.5]			- XX (2.25 [57.2])			
Supply Current Supply Voltage Range	350	μΑ	350	μΑ	† <u>'</u>	(+)		BLU,	, +SIG		
Dutput Impedance, Typ.	4 to 28 32	VDC kΩ	4 to 28 32	VDC kΩ	.59 .42 [15] [10.6] <sub>[2</sub>	09					
Output Bias Voltage	1.3 to 1.7	VDC	1.3 to 1.7	VDC	[15] [10.6] [2	.2					
Output Range	±0.95	VDC	±0.95	VDC	4 4		10				
Self-Test Output [2]	-210 to +850	mV	-210 to +850	mV		∬	42 [10.6]	0.12 [3]			
Turn-On Time	1	ms	1	ms	2X Ø.09 THF			<u> </u>			
Electrical Isolation (Case)	> 100	MΩ	> 100	MΩ	[2.18]	[2.2]					
ENVIRONMENTAL					 [7	30 .6]			BLK, GND RED, +EXC WHT, SELF T		
Maximum Shock	10,000	g pk	98100	m/s <sup>2</sup> pk	-	<u>ا</u>					
Operating Temperature	-40 to +185	°F	-40 to +85	°C							
Seal	Ероху	J	Ероху	J							
					Units on the line drawi	ng are in inches, units in bra	ackets are in millimeters. Refer to 127-753	1A1-XX for more information.			



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com For permission to reprint this content, please contact info@dytran.com