

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

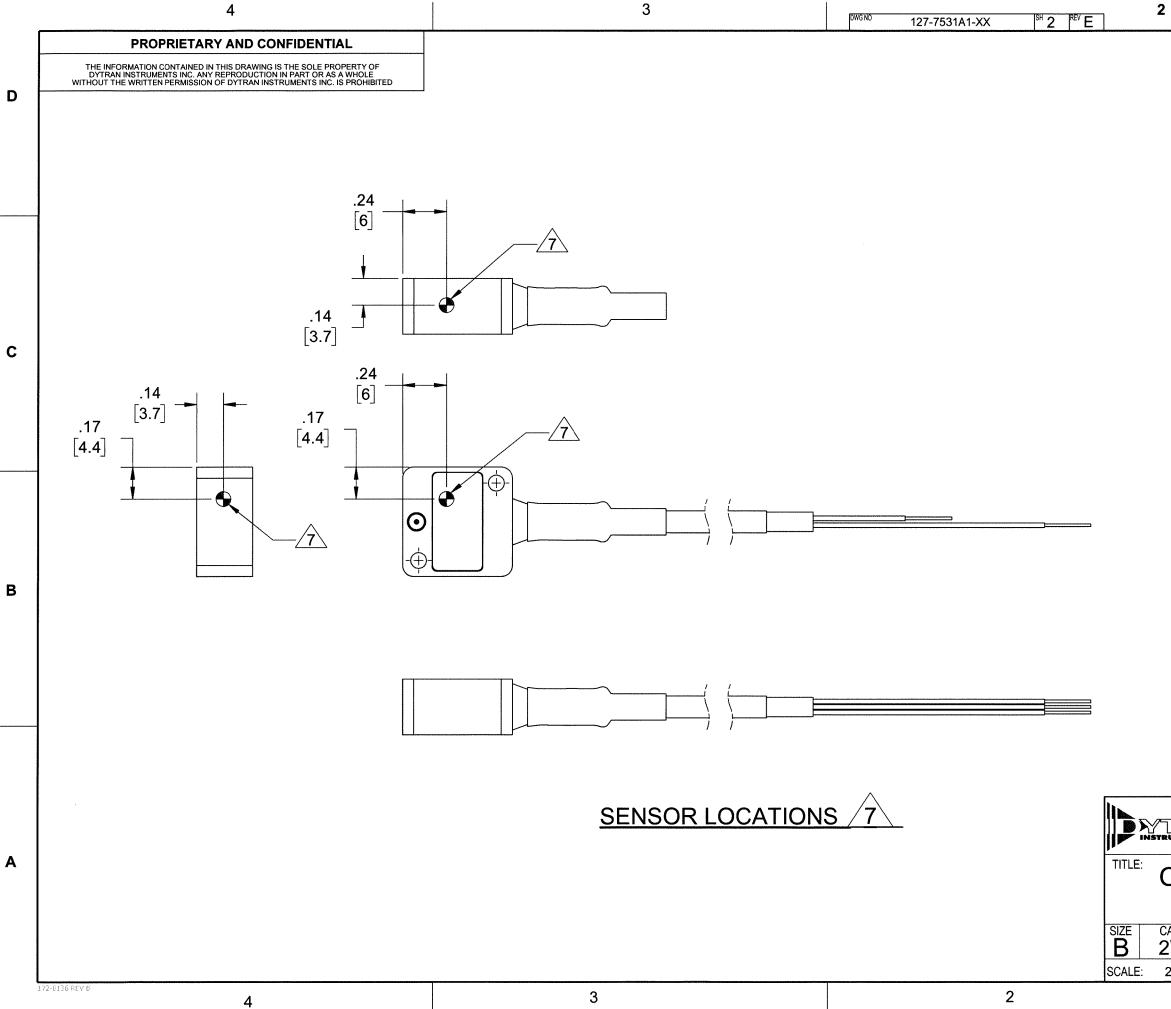
D

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	

7531A1				PERFORM	ANCE SPE	CIFICA	PERFORMANCE SPECIFICATIONS							
	SINGLE AXIS, DC ACCELEROMETER							REV D ECN 15588, 02/10/20						
						Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(µGrms/sqr(Hz))	Oper. Temp(°F)				
•		LOW COST				7531A2	300	±3	175	-40 to 185				
		• WIDE SUPPL	Y VOLTAGE	RANGE		7531A3	174	±5	250	-40 to 185				
		LOW CURRE	NT CONSUM	PTION		7531A4	57	±16	300	-40 to 185				
				_		7531A5	6.5	±200	2700	-40 to 185				
							er to the perform	ance specificatio	ons of the products in t					
		ENGLIS	SH	S										
PHYSICAL			l		•		Accessories:		205)					
Weight, Max. (less cable) Mounting		0.21 2X M2 Screws	oz	6.0 2X M2 Screws	grams		ed calibration cer	•	,					
Cable	Turne	6-conductor		6-conductor	-	2) WOUTUN	g Screw, Model 6	075, MZXU.4 X I	zmm, qty. z					
Jubic	Type Material	Santoprene		Santoprene	4	Notes:								
Housing	Material	Aluminum, Anodized		Aluminum, Anodized	1		ed at 100 Hz, 1 0	Grms per ISA RP	37.2					
3	Isolation	Case Isolated		Case Isolated					ny less full-scale range	e), zero-based				
					4		straight line meth	· ·	, 5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
PERFORMANCE						[3] Refer to	the Operating G	uide for instructi	ons on how to use Sel	f-Test feature				
Sensitivity, +/-10% [1]		420	mV/g	42.8	mV/m/s ²	[4] In the in	nterest of constar	t product improv	vement, we reserve the	e rights to change				
Acceleration Range		±2	Gpeak	±19.6	m/s ² peak					alidate that a particular				
Frequency Range, -3dB		0 to 1600	Hz	0 to 1600	Hz					s suitable for use in a particula				
Resonance Frequency		>5.5	kHz	>5.5	kHz					ons may vary in different				
Linearity [2]		±0.21	%F.S.	±0.21	%F.S.					rameters, including typical				
Transverse Sensitivity Max Spectral Noise		5 250	% µGrms/√Hz	5 2453	% µm/s² rms/√Hz	experts.	s, must be valida	eu for each cus	tomer application by th	e customer's technical				
Sensitivity Change Due to Temp	oerature	±0.006	μGillis/VH2 %/°F	±0.01	μπ//3 mm3/ m2 %/°C	experts.								
	Derature	10.000	70/ F	10.01	767 C									
ELECTRICAL Supply Current		050		050	1	4X R.0	6 .59	-	xx	-				
Supply Cultage Range		350 4 to 28	μA VDC	350 4 to 28	μA VDC	[1.5		-SHRINK TUBING	, BLUE	25 7.2])				
Output Impedance, Typ.		100	Ω	100	Ω	+ +		MAT'L: POLYOLE	FIN	-BLU, +SIG				
Output Bias Voltage		1.3 to 1.7	VDC	1.3 to 1.7	VDC	.59 .42 [15] [10.6]	.09		< < └────					
Output Range		±0.95	VDC	±0.95	VDC		2.2							
Self-Test Output [3]		-210 to +850	mV	-210 to +850	mV	- <u>-</u> i	1	.42	(Ø.12)					
Turn-On Time		1	ms	1	ms	2X Ø.09 TH [2.18]	IRU	[10.6]	- ([3] /					
ENVIRONMENTAL							30	<u> </u>		BLK, GND				
Shock Max		10,000	g pk	98100	m/s ²	[7.6]			WHT, SELF T				
Vibration Max		5000	g pk	49050	m/s ²		1							
Operating Temperature		-40 to +185	°F	-40 to +85	°C									
Seal		Epoxy		Ероху	J									
						Units on the lin	e drawing are in inches	s, units in brackets are	in millimeters. Refer to 127-7	531A1-XX for more information.				



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