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: IS: SENSITIVITY WAS: /ITY (±10%)					AM 03/01/19	KG	LN			
CABLE ASSY					KG 11/11/19	AM	4			
CABLE LENGTH TOLERANCE										
ENG	ILIS	SH			[METRIC]					
T		+1/ -0	IN	≤0.3m +25mm -0mm						
- 5 FT		+2/ -0	IN	.0.	3 m-1.5m	+50mm -0mm				
10 FT	-	+4/ -0	IN	>′	1.5m-3m	+100mm -0mm				
- 25FT	-	+6 / -0	) IN	>:	3m-7.5m	+150mm -0mm				
FT		+5% /	-0%		>7.5m	+5%	6/-0%			
GNE +EX , SEL	YELLOW: +SIG Y-AXIS   BLACK: GND   RED: +EXCITATION   BLUE: +SIG Z-AXIS   WHITE: SELF TEST   GREEN: +SIG X-AXIS   WIRING DIAGRAM   HEXC   SELF T									
E SF	PE(	CIFICA	TION	IS						
-55 °C TO 120 °C										
IN PLATED COPPER, SANTOPRENE .007 WALL										
PLATED COPPER BRAID, 90% COVERAGE										

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## OUTLINE/INSTALLATION DWG. 7533AX SERIES CAGE CODE DWG NO REV 127-7533A1-XX 2W033 D

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Chatsworth, CA ONLY IF IN RED

MASTER

SHEET 1 OF 1

MODEL NUMBER 7533A1		PERFORMANCE SPECIFICATIONS								DOC NO. <b>PS7533A1</b>
1000/11			TRIAXIAL, DC ACCELEROMETER							REV D ECN 15400, 11/11/19
				•		Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(µGrms/sqr(Hz))	Oper. Temp(°F)
· There ·		LOW COST				7533A2	300	±3	175(x,y); 300(z)	-40 to 185
		• WIDE SUPPL	Y VOLTAGE	RANGE		7533A3	174	±5	250	-40 to 185
		LOW CURREI	NT CONSUM	PTION		7533A4	57	±16	300	-40 to 185
						7533A5	6.5	±200	2700(x,y); 4300(z)	-40 to 185
		ENGLI	SH	S					ins of the products in t	
PHYSICAL						description				-
Weight, Max. (less cable)		0.21	oz	6.0	grams					
Mounting		2X M2 Screws		2X M2 Screws			Accessories:			
Cable	Туре	6-conductor		6-conductor		·	ed calibration cer	•	,	
	Material	Santoprene		Santoprene		2) Mountin	g Screw, Model 6	675, M2x0.4 x 1	2mm, qty. 2	
Housing	Material	Aluminum, Anodized		Aluminum, Anodized						
	Isolation	Case Isolated	l	Case Isolated	l	Notes:	ad at 100 Hz E C		27.0	
PERFORMANCE							ed at 100 Hz, 5 G	•	v less full-scale range	) zero-based
Sensitivity, +/-10% [1]		420	mV/g	42.8	mV/m/s <sup>2</sup>		straight line meth		ly less full-scale fallye	), 2010-based
Acceleration Range, Min.		±2	Gpeak	±19.6	m/s <sup>2</sup> peak		Ũ		ons on how to use Sel	f-Test feature
Frequency Range, -3dB	X.Y axes	0 to 1600	Hz	0 to 1600	Hz				ement, we reserve the	
	Z-axis	0 to 550	Hz	0 to 550	Hz			• •		alidate that a particular
Resonance Frequency		>5.5	kHz	>5.5	kHz	product wit	h the properties of	described in the	product specification is	s suitable for use in a particular
Linearity [2]		±0.21	%F.S.	±0.21	%F.S.	application	. Parameters pro	vided in datashe	ets and / or specificati	ons may vary in different
Transverse Sensitivity Max		5	%	5	%		•			ameters, including typical
Noise		250	µGrms/vHz	2453	µm/s <sup>²</sup> rms/√Hz		s, must be validat	ed for each cust	omer application by th	e customer's technical
Sensitivity Change Due to Ter	nperature	±0.006	%/°F	±0.01	%/°C	experts.				
ELECTRICAL										
Supply Current		350	μA	350	μA					
Supply Voltage Range		4 to 28	VDC	4 to 28	VDC	4X R.0	.59		××	
Output Impedance, Typ.		100	Ω	100	Ω	[1.			/ 2.25	\ \
Output Bias Voltage	X,Y axes	1.3 to 1.7	VDC	1.3 to 1.7	VDC	+ +		SHRINK TUBING, BLU	JE (2.25 [57.2]	)
	Z-axis	1.2 to 1.8	VDC	1.2 to 1.8	VDC	.59 .42 .0 [15] [10.6] [2.	9 - I I I T	<u> </u>		
Output Range	Vaula	±0.95	VDC	±0.95	VDC		╧┶┟ <sub>╋</sub> └──╎┝⁴	;	(Ø.12)	
Self-Test Output [3]	X-axis Y-axis	-210 to -850 +210 to +850	mV	-210 to -850 +210 to +850	mV	2X Ø.09 TH		.42 [10.6]	[3]	
	Z-axis	+210 to +850 +210 to +1400	mV mV	+210 to +850	mV mV	[2.18]	······································			
Turn-On Time	2 0/13	1	ms	1	ms	.30		~		-GRN, +SIG (X) -BLK, GND
ENVIRONMENTAL						[7.6]			)	YEL, +SIG (Y) WHT, SELF T BLU, +SIG (Z)
Shock Max		10,000	g pk	98100	m/s²					
Vibration Max		5000	g pk	49050	m/s <sup>2</sup>					
Operating Temperature		-40 to +185	°F	-40 to +85	°C					
Seal		-40 t0 + 185 Epoxy	ſ	-40 t0 +85 Epoxy	Ŭ	Units on the lin	e drawing are in inches	s, units in brackets are	in millimeters. Refer to 127-74	533A1-XX for more information.
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				Chatsworth, Calif t this content, plea				8.700.7880 w	ww.dytran.com Fo	)ť