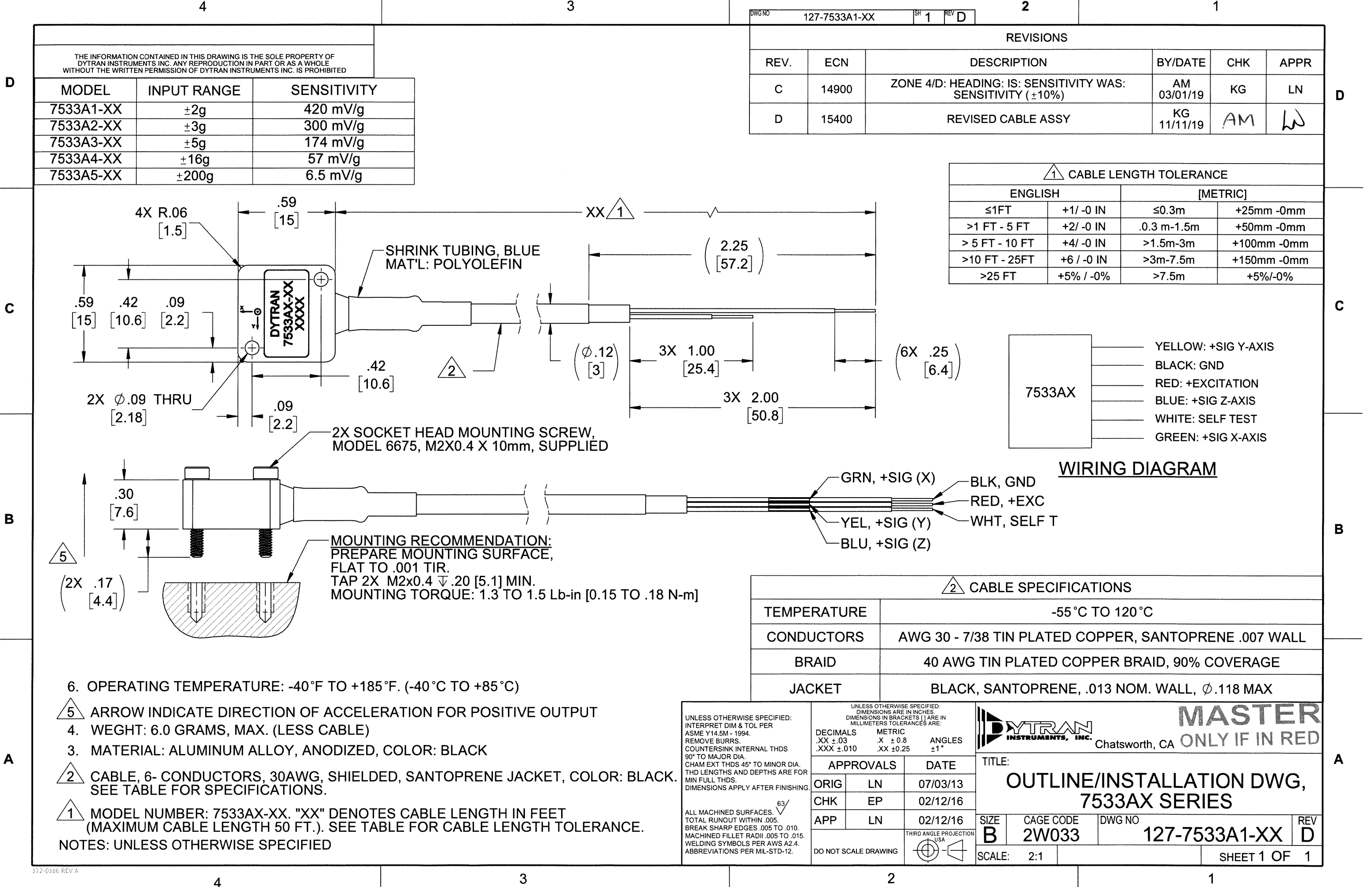


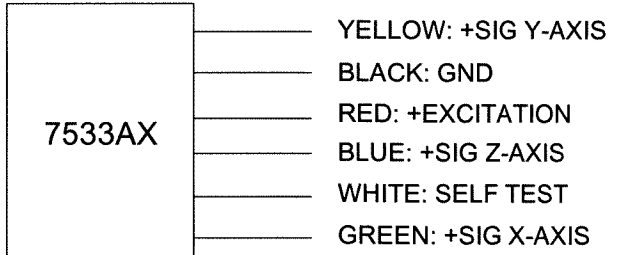


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED

MODEL	INPUT RANGE	SENSITIVITY
7533A1-XX	±2g	420 mV/g
7533A2-XX	±3g	300 mV/g
7533A3-XX	±5g	174 mV/g
7533A4-XX	±16g	57 mV/g
7533A5-XX	±200g	6.5 mV/g

REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	14900	ZONE 4/D: HEADING: IS: SENSITIVITY WAS: SENSITIVITY (±10%)	AM 03/01/19	KG	LN
D	15400	REVISED CABLE ASSY	KG 11/11/19	AM	LN

1 CABLE LENGTH TOLERANCE			
ENGLISH		[METRIC]	
≤1FT	+1/-0 IN	≤0.3m	+25mm -0mm
>1 FT - 5 FT	+2/-0 IN	.0.3 m-1.5m	+50mm -0mm
> 5 FT - 10 FT	+4/-0 IN	>1.5m-3m	+100mm -0mm
>10 FT - 25FT	+6/-0 IN	>3m-7.5m	+150mm -0mm
>25 FT	+5%/-0%	>7.5m	+5%/-0%



WIRING DIAGRAM

2 CABLE SPECIFICATIONS	
TEMPERATURE	-55°C TO 120°C
CONDUCTORS	AWG 30 - 7/38 TIN PLATED COPPER, SANTOPRENE .007 WALL
BRAID	40 AWG TIN PLATED COPPER BRAID, 90% COVERAGE
JACKET	BLACK, SANTOPRENE, .013 NOM. WALL, Ø.118 MAX

6. OPERATING TEMPERATURE: -40°F TO +185°F. (-40°C TO +85°C)
- 5 ARROW INDICATE DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT
4. WEGHT: 6.0 GRAMS, MAX. (LESS CABLE)
3. MATERIAL: ALUMINUM ALLOY, ANODIZED, COLOR: BLACK
- 2 CABLE, 6- CONDUCTORS, 30AWG, SHIELDED, SANTOPRENE JACKET, COLOR: BLACK. SEE TABLE FOR SPECIFICATIONS.
- 1 MODEL NUMBER: 7533AX-XX. "XX" DENOTES CABLE LENGTH IN FEET (MAXIMUM CABLE LENGTH 50 FT.). SEE TABLE FOR CABLE LENGTH TOLERANCE.
- 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.
DIMENSIONS APPLY AFTER FINISHING.

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:

DECIMALS	METRIC	ANGLES
.XX ±.03	.X ±0.8	±1°
.XXX ±.010	.XX ±0.25	

APPROVALS		DATE
ORIG	LN	07/03/13
CHK	EP	02/12/16
APP	LN	02/12/16

DO NOT SCALE DRAWING

DYTRAN
INSTRUMENTS, INC.
Chatsworth, CA

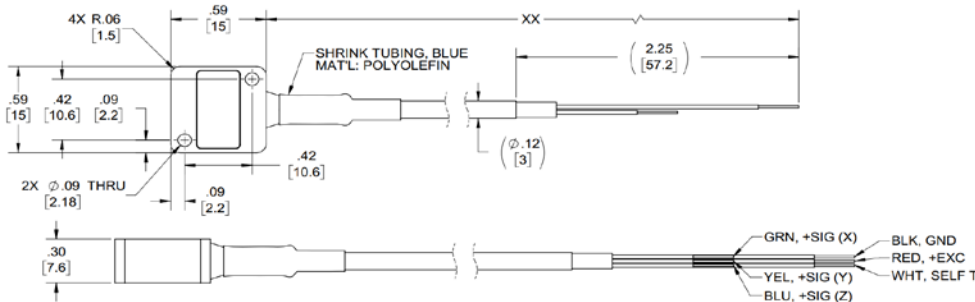
MASTER
ONLY IF IN RED

TITLE:
**OUTLINE/INSTALLATION DWG,
7533AX SERIES**

SIZE B	CAGE CODE 2W033	DWG NO 127-7533A1-XX	REV D
------------------	---------------------------	--------------------------------	-----------------

SCALE: 2:1

SHEET 1 OF 1

MODEL NUMBER 7533A2		PERFORMANCE SPECIFICATIONS				DOC NO. PS7533A2				
		TRIAxIAL, DC ACCELEROMETER				REV G, ECN 17146, 05/15/23				
		• LOW COST • WIDE SUPPLY VOLTAGE RANGE • LOW CURRENT CONSUMPTION				Model	Sensitivity (mV/g)	Frequency Response, -3dB (Hz)	Noise (µg RMS/√Hz)	Oper. Temp(°F)
						7533A1	420	0 to 1600 (x,y); 0 to 550 (z)	250	-40 to 185
						7533A3	174	0 to 1000 (x,y); 0 to 550 (z)	250	-40 to 185
						7533A4	57	0 to 1600 (x,y); 0 to 550 (z)	300	-40 to 185
						7533A5	6.5	0 to 1300 (x,y); 0 to 1000 (z)	2700(x,y); 4300(z)	-40 to 185
Please, refer to the performance specifications of the products in this family for detailed description										
Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Mounting Screw, Model 6675, M2x0.4 x 12mm, qty. 2										
Notes: [1] All specifications are at room temperature unless otherwise specified. [2] Measure using zero-based straight line method, % of F.S. or any lesser range. [3] In the interest of constant product improvement, we reserve the rights to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.										
PHYSICAL		ENGLISH		SI						
Weight, Max. (less cable)		0.21	oz	6.0	grams					
Mounting		2X M2 Screws		2X M2 Screws						
Cable	Type	6-conductor		6-conductor						
	Material	Santoprene		Santoprene						
Housing	Material	Aluminum, Anodized		Aluminum, Anodized						
	Isolation	Case Isolated		Case Isolated						
PERFORMANCE										
Sensitivity, +/-10% [1]		300	mV/g	30.6	mV/m/s²					
Acceleration Range, Min.		±3	g pk	±29.4	m/s² pk					
Frequency Range, -3dB	X,Y axes	0 to 1600	Hz	0 to 1600	Hz					
	Z-axis	0 to 550	Hz	0 to 550	Hz					
Resonance Frequency		>5.5	kHz	>5.5	kHz					
Spectral Noise	X,Y axes	175	µg RMS/√Hz	1717	µm/s² RMS/√Hz					
	Z-axis	300	µg RMS/√Hz	2943	µm/s² RMS/√Hz					
Linearity		±0.3	%F.S.	±0.3	%F.S.					
Transverse Sensitivity Max		5	%	5	%					
Sensitivity Change Due to Temperature		0.006	%/°F	0.01	%/°C					
ELECTRICAL										
Supply Current		300	µA	300	µA					
Supply Voltage Range		4 to 28	VDC	4 to 28	VDC					
Output impedance, Typ.		32	kΩ	32	kΩ					
Output Bias Voltage	X,Y axes	1.35 to 1.65	VDC	1.3 to 1.7	VDC					
	Z-axis	1.2 to 1.8	VDC	1.2 to 1.8	VDC					
Output Range		±1.0	VDC	±1.0	VDC					
Self-Test Output [2]	X-axis	-150 to -600	mV	-210 to -850	mV					
	Y-axis	+150 to +600	mV	+210 to +850	mV					
	Z-axis	+150 to +1000	mV	+210 to +1400	mV					
Turn-On Time		1	ms	1	ms					
ENVIRONMENTAL										
Maximum Shock		10,000	g pk	98100	m/s² pk					
Operating Temperature		-40 to +185	°F	-40 to +85	°C					
Seal		Epoxy		Epoxy						
										
Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-7533A1-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										