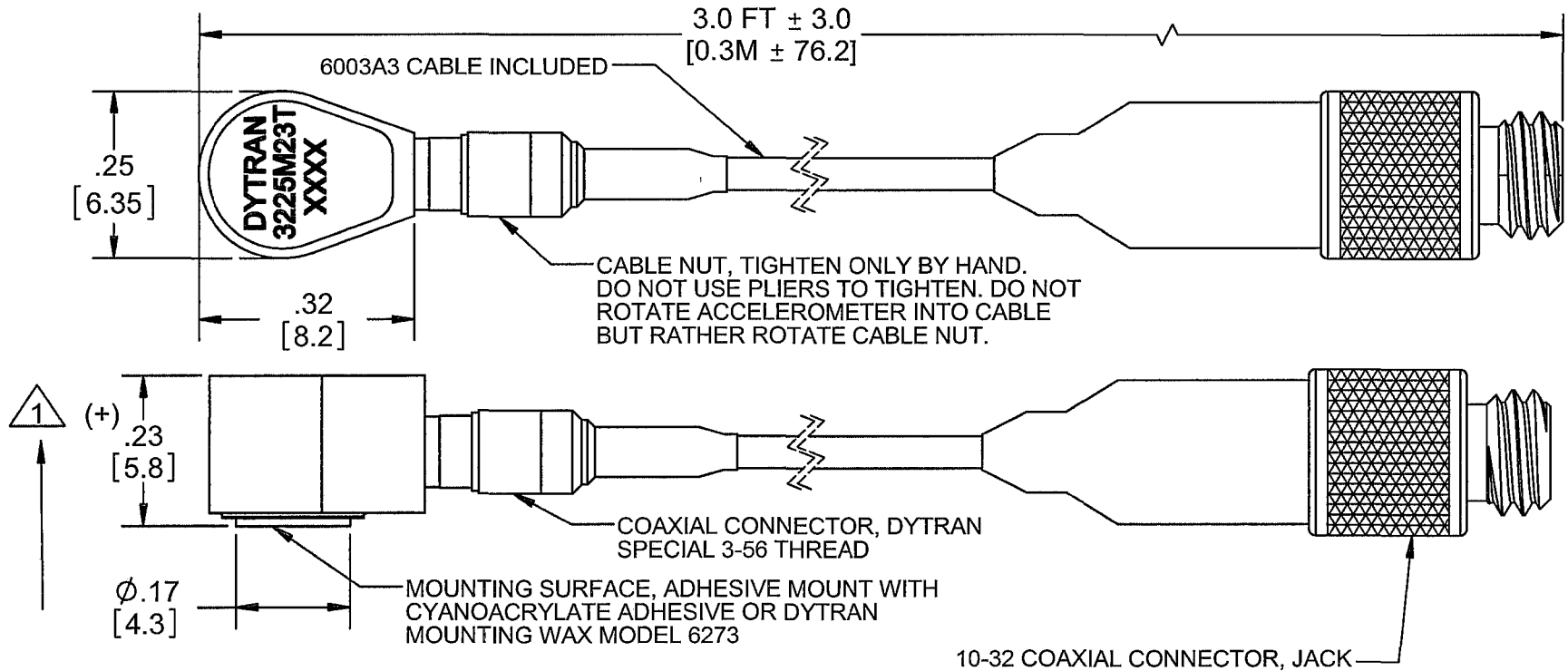


PROPRIETARY AND CONFIDENTIAL

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

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	9494	UPDATED VIEW OF CONNECTOR	AB 05/03/13		



3. CASE AND CONNECTOR MATERIAL: TITANIUM.
2. WEIGHT, LESS CABLE: 0.9 GRAMS MAX.

ARROW INDICATES DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

NOTES: UNLESS OTHERWISE SPECIFIED

USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

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.
 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 DV	07/15/08
CHK CES	07/16/08
APP DV	07/16/08
APP	5/8/13

DYTRAN MASTER INSTRUMENTS, INC.
 CHATSWORTH, CALIF. ONLY IN RED

TITLE: **OUTLINE /INSTALLATION DRAWING, 3225M23T**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3225M23T	C

SCALE: NONE SOLIDWORKS SHEET 1 OF 1

SPECIFICATIONS

MODEL 3225M23T MINIATURE IEPE ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT	1.1	gram
SIZE (DIA x LENGTH HEX x HEIGHT)	0.25 x 0.43 x .215	inch
MOUNTING PROVISION	Flat mounting surface for adhesive mount	
CONNECTOR, RADIALLY MOUNTED [1]	3-56	
CASE MATERIAL	Titanium	
SENSING ELEMENT TYPE	Piezoceramics, planar shear	
PERFORMANCE		
SENSITIVITY, $\pm 10\%$ [2] [3]	50	mV/g
RANGE F.S. FOR ± 5 VOLTS OUT	± 100	g
FREQUENCY RESPONSE, $\pm 10\%$ [3]	2 to 10,000	Hz
MOUNTED RESONANT FREQUENCY	>40	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.00045	grms
AMPLITUDE NON-LINEARITY, (ZERO BASED BEST-FIT ST.LINE METHOD)	2	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY @ 250 $\mu\epsilon$.05	g/ $\mu\epsilon$
ENVIRONMENTAL		
MAXIMUM VIBRATION	400	grms
MAXIMUM SHOCK	5000	gpk
TEMPERATURE RANGE	-60 to +220	$^{\circ}$ F
THERMAL COEFFICIENT OF SENSITIVITY	.15	%/ $^{\circ}$ F
ENVIRONMENTAL SEAL	Hermetic, TIG welded & glass-to-metal seal connector	
ELECTRICAL		
SUPPLY CURRENT [4]	2 to 20	mA
COMPLIANCE VOLTAGE RANGE	+18 to +30	Volts
OUTPUT IMPEDANCE, TYP.	70	Ω
BIAS VOLTAGE	+11 to +13	Vdc
DISCHARGE TIME CONSTANT	0.4 to 1.4	sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	Positive	
IEPE SENSOR WITH TEDS FEATURE	PER IEEE 1451.4	

SUPPLIED ACCESSORIES:

- (1) MODEL 6591A INSTALLATION REMOVAL WRENCH
- (2) 6298 SMALL PETRO WAX

NOTES:

- [1] CONNECTOR MATES ONLY WITH DYTRAN CABLE MODEL 6003AXX (XX IS LENGTH IN FEET)
- [2] MEASURED AT 100 Hz, 1 grms PER ISA RP37.2.
- [3] ACTUAL SENSITIVITY IS GIVEN ON A CALIBRATION CERTIFICATE TRACEABLE TO NIST, SUPPLIED WITH EACH INSTRUMENT.
- [4] DO NOT APPLY POWER TO THIS DEVICE WITHOUT CURRENT LIMITING, 20 mA MAX. TO DO SO WILL DESTROY THE INTEGRAL IC AMPLIFIER.

OPERATING INSTRUCTIONS