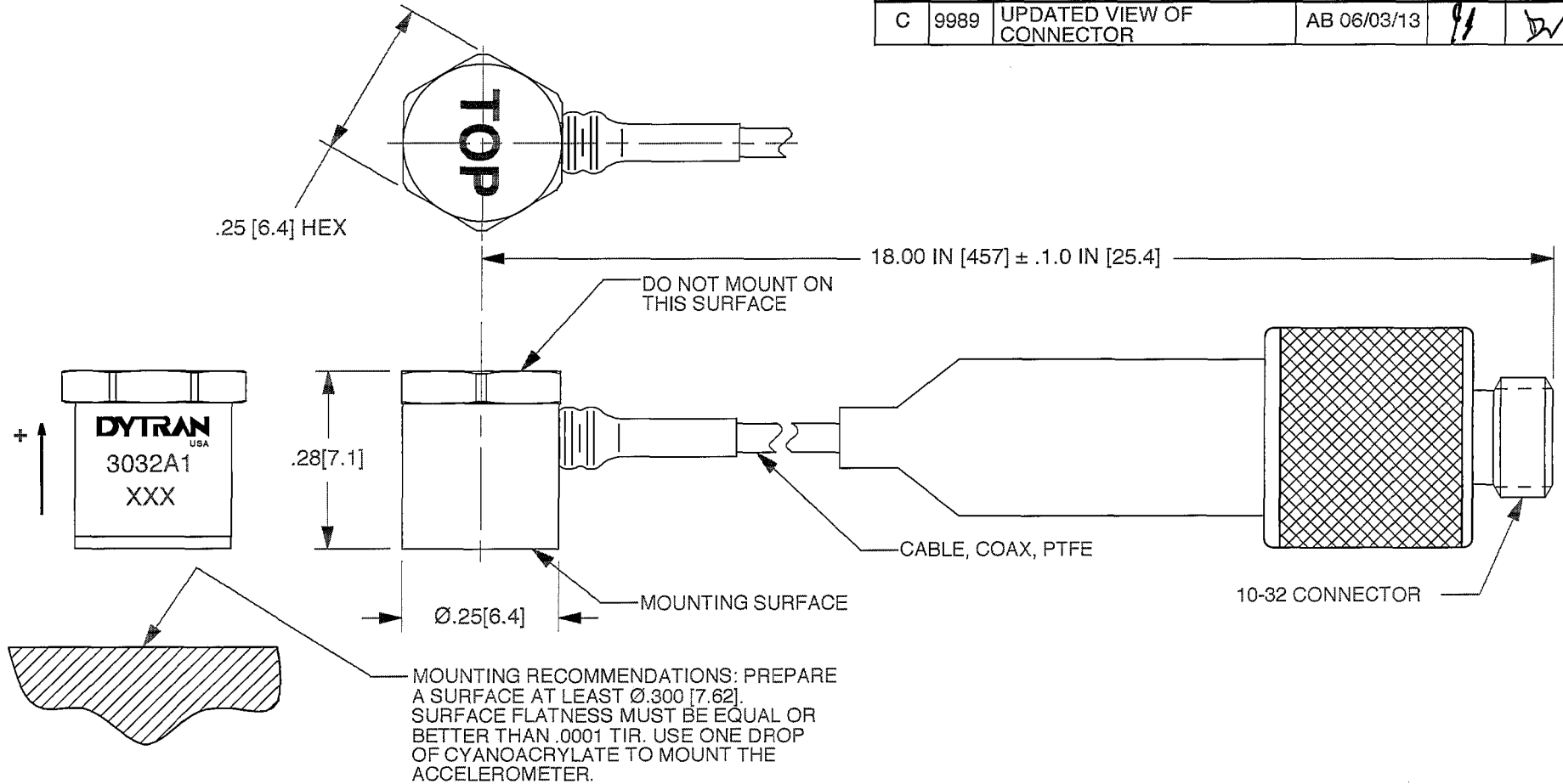


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	7725	UPDATED MARKING, CABLE VIEW	RLA 08/03/11	DV	ANS
C	9989	UPDATED VIEW OF CONNECTOR	AB 06/03/13	91	DV



- 3. HOUSING MATERIAL: TITANIUM
- 2. WEIGHT (LESS CABLE): 1.5 GRAMS
- 1. TO REMOVE, (UN-INSTALL) TORQUE GENTLY ON HEX UNTIL ADHESIVE JOINT FAILS IN SHEAR. DO NOT STRIKE TO REMOVE.

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
 COUNTERSINKS INTERNAL THDS 90°
 TO MAJOR DIA CHAM EXT THDS 45°
 TO MAJOR DIA. THD LENGTHS AND
 DEPTHS ARE FOR THDS PER MIL-S-
 7742.
 DIMENSIONS APPLY AFTER
 FINISHING.

ALL MACHINED SURFACES
 TOTAL RUNOUT WITHIN .005 BREAK
 SHARP EDGES .005 TO .010 MACHINE
 FILLET RADI .005 TO .015. WELDING
 SYMBOLS PER AWS A2.4
 ABBREVIATIONS PER MIL-STD-12

CONTRACT NO		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSION IN BRACKETS () ARE IN MILLIMETERS. TOLERANCES ARE:		
INCHES .XX ± .03 .XXX ± .010	METRIC .X ± 0.8 .XX ± 0.25	ANGLES ± 1°
FINISH		
DO NOT SCALE DRAWING		

MASTER

ONLY IF IN RED

CHATSWORTH, CA.

SCALE 4X	DESIGN NC	DATE 10/23/98			
DRAWN NC	DATE 01/28/00	PART NO.	-		
CHECKED R.A.	DATE 04/01/02	MAT'L	-		
APPROVED N.C.	DATE 04/01/02	NEXT ASSEMBLY	-		

**OUTLINE/INSTALLATION DRAWING,
MODEL 3032A1**

DWG NO.
127-3032A1

SHEET 1 OF 1

SPECIFICATIONS

MODEL 3032A1 MINIATURE QUARTZ SHEAR LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT, LESS CABLE	1.5	GRAMS
WEIGHT, INCLUDING CABLE	5.6	GRAMS
SIZE (HEX x HEIGHT)	.25 x .28	INCHES
MOUNTING PROVISION	ADHESIVE MOUNT	
CONNECTOR, COAXIAL, MOUNTED AT END OF 18 IN CABLE	10-32, UNF-2A	JACK
CASE /CAP MATERIAL	TITANIUM	
ELEMENT TYPE	QUARTZ SHEAR	
PERFORMANCE		
SENSITIVITY, +/-10% [1]	5.0	mV/G
RANGE F.S. FOR +/- 5 VOLTS OUT	+/- 1000	G's
FREQUENCY RESPONSE, +/- 10%	1 to 10,000	Hz
FREQUENCY RESPONSE, +/- 3db	.66 TO 12,000	Hz
MOUNTED RESONANT FREQUENCY	>80	kHz
EQUIVALENT ELECTRICAL NOISE (RESOLUTION)	.007	G, RMS
AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD)	2.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	PERCENT
STRAIN SENSITIVITY	.001	G's PER MICROSTRAIN @ 250/ $\mu\sigma$
ENVIRONMENTAL		
MAXIMUM VIBRATION	1500	G's, RMS
MAXIMUM SHOCK	2000	G's, PEAK
TEMPERATURE RANGE	-60 TO +250	$^{\circ}$ F
THERMAL COEFFICIENT OF SENSITIVITY	0.06	%/ $^{\circ}$ F
SEAL	EPOXY/WELDED	
ELECTRICAL		
EXCITATION (COMPLIANCE) VOLTAGE RANGE	+20 to +30	VDC
EXCITATION CURRENT RANGE	2 to 20	mA
OUTPUT IMPEDANCE, NOM.	100	
OHMS		
OUTPUT BIAS VOLTAGE	7 to 9	VDC
DISCHARGE TIME CONSTANT	.35 to 1.3	SEC.
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	POSITIVE GOING	

[1] MEASURED AT 1 G RMS AT 100 HZ PER ISA RP 37.2

[2] A CALIBRATION CERTIFICATE TRACEABLE TO **NIST** IS SUPPLIED WITH EACH INSTRUMENT.