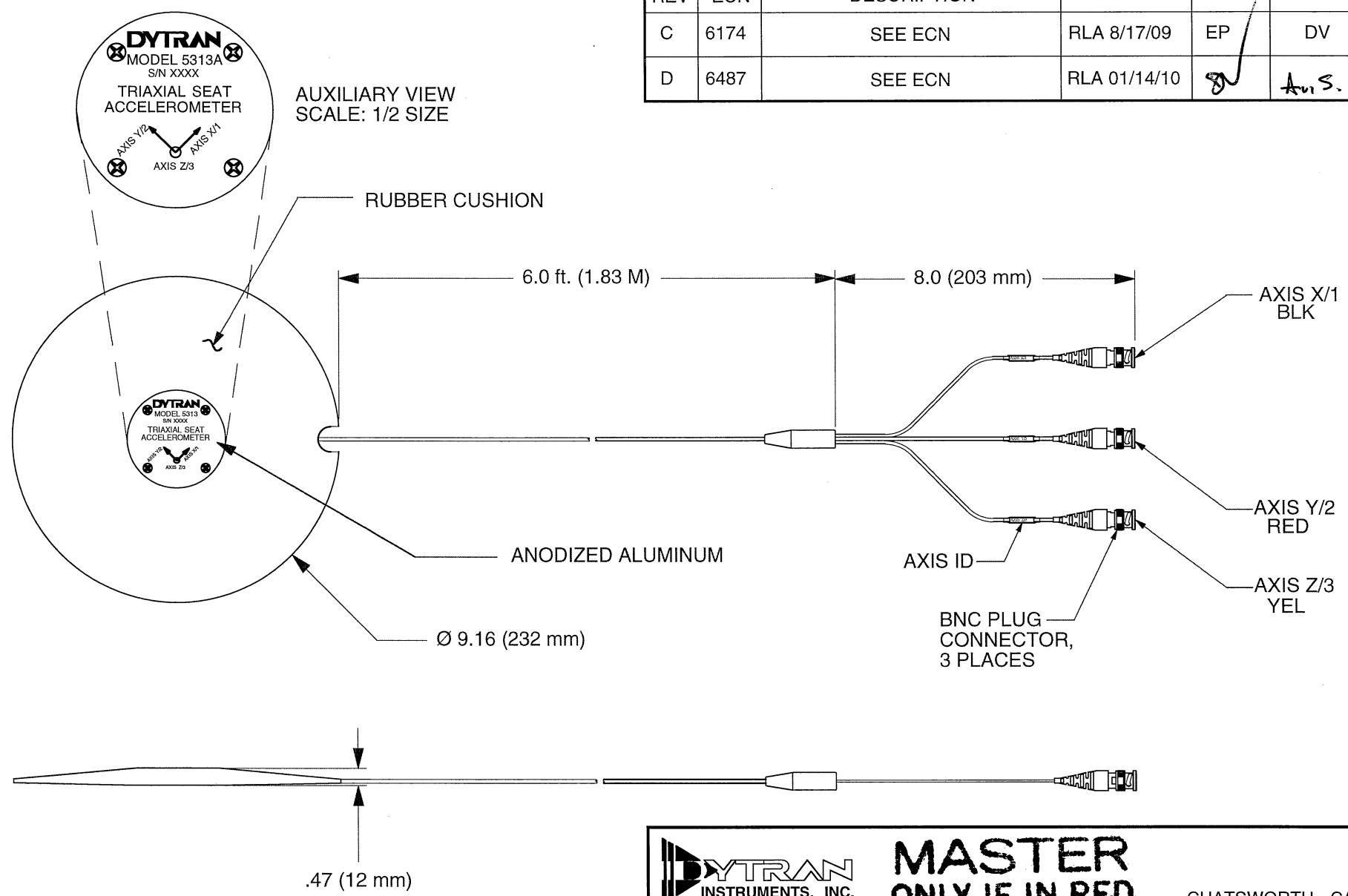



REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	6174	SEE ECN	RLA 8/17/09	EP	DV
D	6487	SEE ECN	RLA 01/14/10	<i>[Signature]</i>	<i>Am S.</i>



1. TEMPERATURE RANGE, OPERATING -60° to +160°



**DYTRAN**  
INSTRUMENTS, INC.

**MASTER  
ONLY IF IN RED**

CHATSWORTH, CA.

SCALE 1/4		REV -	DATE SEE REV BLK	ECN -		
DATE 1/3/03		PART NO. MODEL 5313A				
DRAWN N.C.	CHECKED R.A.	MAT'L -				
APPROVED PML 3/18/05		NEXT ASSEMBLY		USED ON MODEL 5313A		
TITLE					DWG NO.	
<b>OUTLINE/INSTALLATION DRAWING MODEL 5313A TRIAXIAL SEAT CUSHION ACCEL</b>					<b>127-5313A</b>	
					SHEET 1 OF 1	

# SPECIFICATIONS

## MODEL 5313A TRIAXIAL LIVM SEAT ACCELEROMETER

SPECIFICATION	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT	0.5 (227)	Lb. (Grams)
SIZE, DIA. X THICKNESS	Ø9.16 (232) X Ø.47 (12.0)	Inches (mm)
CONNECTORS, AT END OF RADIAL 10 FT. CABLE (3)	BNC PLUGS	
MATERIAL, PAD	RUBBER	
CENTRAL HOUSING	ANODIZED ALUMINUM	
<b>PERFORMANCE</b>		
<b>CONFORMS TO ISO 8041</b>		
<b>EACH AXIS</b>		
SENSITIVITY, EACH AXIS, $\pm 5\%$ [1]	100	mV/G
RANGE F.S. FOR $\pm 5$ VOLTS OUTPUT	$\pm 50$	G's
FREQUENCY RANGE, $\pm 5\%$	0.5 to 3000	Hz
RESONANT FREQUENCY, NOM.	25	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.0007	G's RMS
LINEARITY [2]	$\pm 1\%$	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.012	G's/ $\mu$ @ 250 $\mu$
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION/SHOCK	400/1500	$\pm$ G's/G's PEAK
TEMPERATURE RANGE, OPERATING	-60 to +160	$^{\circ}$ F
TEMPERATURE RANGE, SURVIVAL	-100 TO +275	$^{\circ}$ F
SEAL, ACCELEROMETER	HERMETIC	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/ $^{\circ}$ F
<b>ELECTRICAL</b>		
SUPPLY CURRENT/COMPLIANCE VOLTAGE RANGE [3]	2 to 20/+18 to +30	mA/Volts
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE RANGE	+9 to +12	VDC
DISCHARGE TIME CONSTANT RANGE	0.8 to 1.2	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
OUTPUT POLARITY FOR ACCELERATION IN DIRECTION OF ARROWS		positive
ELECTRICAL ISOLATION, CASE GROUND TO MOUNTING SURFACE		10 Megohms, min.
CABLE, TERMINATES IN 3-BNC's FOR CONNECTION TO 3 POWER UNITS		6FT 8" LONG

[1] Measured at 100 Hz, 1 G RMS per ISA RP 37.2.

[2] Measured using zero-based best straight line method, % of F.S. or any lesser range.

[3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.