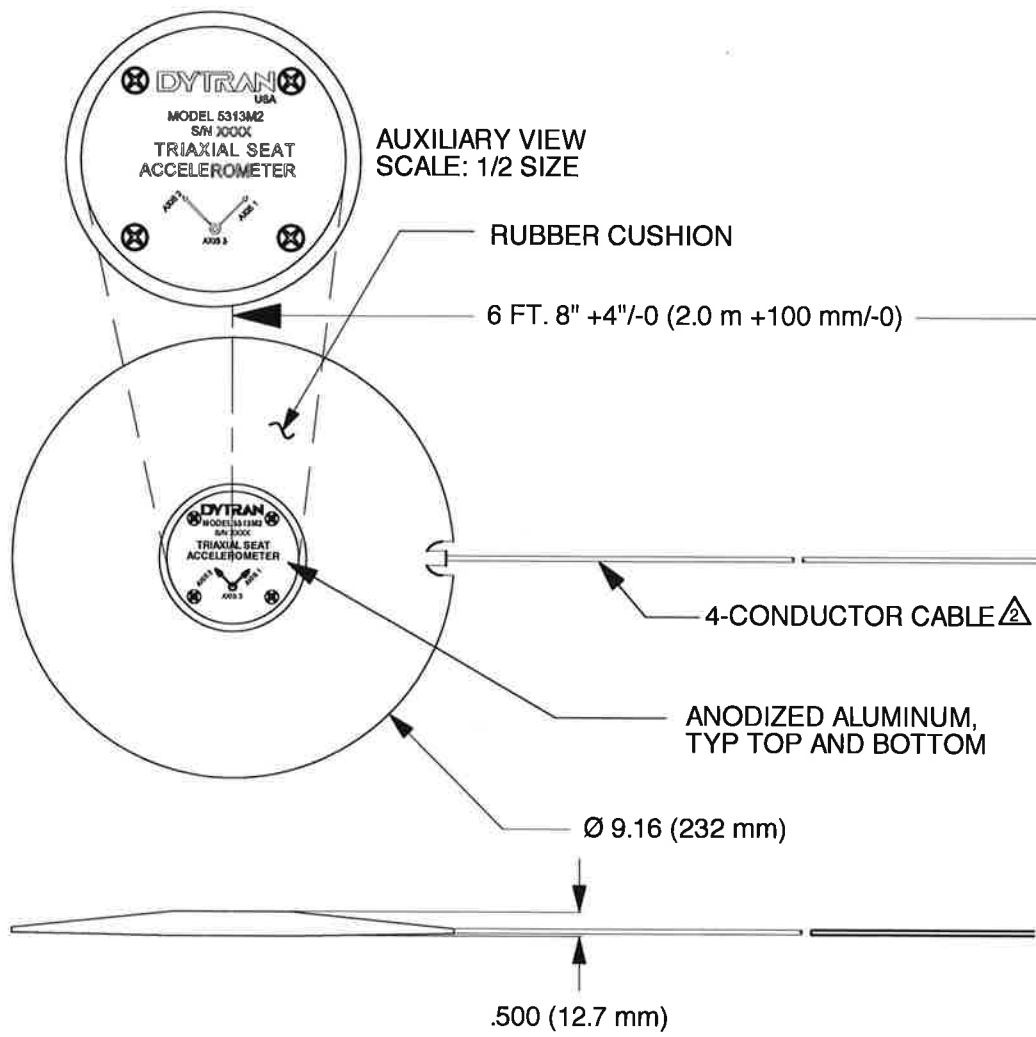
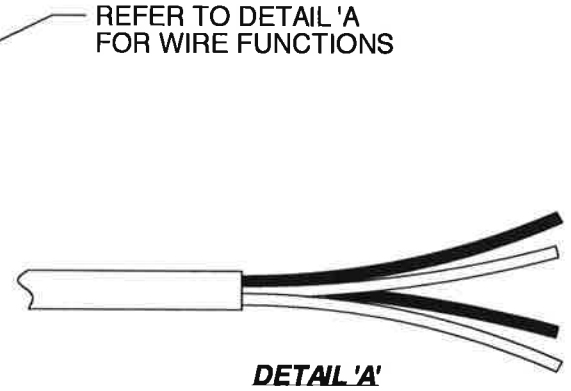


**DYTRAN PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF  
 DYTRAN INSTRUMENTS, INC. AND ANY REPRODUCTION IN PART OR AS A WHOLE  
 OR ANY OTHER DISSEMINATION OF THIS INFORMATION WITHOUT THE WRITTEN  
 PERMISSION OF DYTRAN INSTRUMENTS, INC. IS PROHIBITED.

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	12553	REVISED FORMAT	RA, 03/11/16	MH	AS
B	13418	SEE ECN	MH, 04/21/17	lw	Em



4-CONDUCTOR CABLE	
AWG	30-7/38 SILVER PLATED COPPER-CONDUCTOR CABLE
WIRE TYPE	PFA INSULATION O.D. .024 ±.002
WIRE TEMP.	-65°C TO 200°C
VOLTAGE	600 VOLTS
CABLE	1/2" LEFT HAND LAY
SHIELD	38 AWG SILVER PLATED COPPER 90% COVER 4E018C 42F/208
JACKET	BLK FEP .006/.015 WALL THICKNESS
DIAMETER	MIN .095/1.105 MAX



WIRE COLOR	WIRE FUNCTION
BLACK	COMMON GND
RED	AXIS 2
WHITE	AXIS 3
YELLOW	AXIS 1

NOTES: UNLESS OTHERWISE SPECIFIED

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.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSION IN BRACKETS [ ] ARE IN MILLIMETERS. TOLERANCES ARE: INCHES      METRIC      ANGLES XX ±.03      .X ± 0.8      ± 1° XXX ±.010    XX ± 0.25		CONTRACT NO.	
USED ON	NEXT ASSY	MATERIAL	APPROVALS ORIG      N.C.      10/29/04 CHK      R.A.      10/29/04 APP      N.C.      10/29/04		DATE
APPLICATION THIRD ANGLE PROJECTION USA		FINISH	SIZE      CAGE CODE      DWG. NO.		REV
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		DO NOT SCALE DRAWING		SCALE:	

**DYTRAN INSTRUMENTS, INC.** CHATSWORTH, CA. **MASTER ONLY IF IN RED**

**OUTLINE/INSTALLATION DWG. MOD 5313M2 TRIAXIAL SEAT ACCEL**

SIZE: **A** CAGE CODE: **2W033** DWG. NO.: **127-5313M2** REV: **B**

SCALE: ASHLAR GRAPHITE SHEET 1 OF 1

Model Number  
5313M2

## PERFORMANCE SPECIFICATIONS

DOC NO  
PS5313M2

### IEPE TRIAXIAL SEAT ACCELEROMETER

REV A, EGN 12553, 03/08/16



- HERMETICALLY SEALED
- EXCELLENT LINEARITY

#### PHYSICAL

Weight, Max.  
Size (Dia. X Thickness)  
Material, Pad  
Material, Central Housing Plates (Upper and Lower)  
Cable  
Cable Termination

ENGLISH		SI	
0.5	lb.	227	grams
9.16 x .47	in.	232 x 12	mm
Rubber		Rubber	
Anodized Aluminum		Anodized Aluminum	
4-wire, 6ft. Long		4-wire, 6ft. Long	
Pigtail		Pigtail	

#### PERFORMANCE

Sensitivity,  $\pm 5\%$  [1]  
Range F.S. for  $\pm 5$  Volts Output  
Frequency Response,  $\pm 5\%$   
Resonant Frequency  
Equivalent Electrical Noise Floor  
Linearity [2]  
Transverse Sensitivity, Max.  
Strain Sensitivity @ 250 $\mu\epsilon$

100	mV/G	10	mV/m/s <sup>2</sup>
$\pm 50$	G peak	$\pm 491$	m/s <sup>2</sup> peak
0.5 to 3000	Hz	0.5 to 3000	Hz
> 25	kHz	> 25	kHz
0.0007	G rms	0.007	m/s <sup>2</sup> rms
$\pm 1$	% F.S.	$\pm 1$	% F.S.
5	%	5	%
0.012	G/ $\mu\epsilon$	0.12	m/s <sup>2</sup> / $\mu\epsilon$

#### ENVIRONMENTAL

Maximum Vibration  
Maximum Shock  
Operating Temperature Range  
Survival Temperature Range  
Seal  
Coefficient of Thermal Sensitivity

$\pm 400$	G peak	$\pm 3924$	m/s <sup>2</sup> peak
$\pm 1500$	G peak	$\pm 14715$	m/s <sup>2</sup> peak
-60 to +160	°F	-51 to +71	°C
-100 to +275	°F	-73 to +135	°C
Hermetic		Hermetic	
0.03	%/°F	0.05	%/°C

#### ELECTRICAL

Supply Current Range [3]  
Compliance Voltage Range  
Output Impedance, Typ.  
Bias Voltage  
Discharge Time Constant  
Electrical Isolation, Case ground to mounting surface  
Polarity in direction of arrows

2 to 20	mA	2 to 20	mA
+18 to +30	Volts	+18 to +30	Volts
100	$\Omega$	100	$\Omega$
+11 to +13	VDC	+11 to +13	VDC
0.8 to 2.0	Sec	0.8 to 2.0	Sec
10	M $\Omega$ , min.	10	M $\Omega$ , min.
Positive		Positive	

#### This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

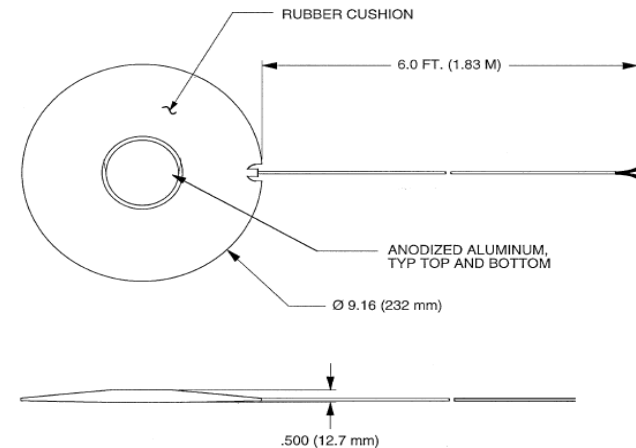
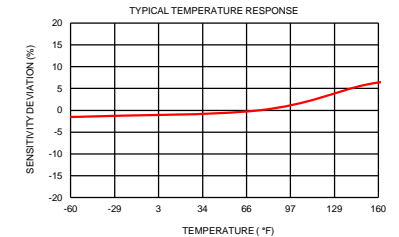
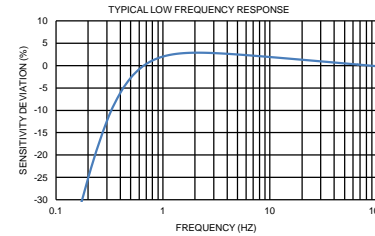
Refer to the performance specifications of the products in this family for detailed description

#### Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)

#### Notes:

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the amplifier.
- [4] This product conforms to ISO 8041.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-5313M2 for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com  
For permission to reprint this content, please contact info@dytran.com