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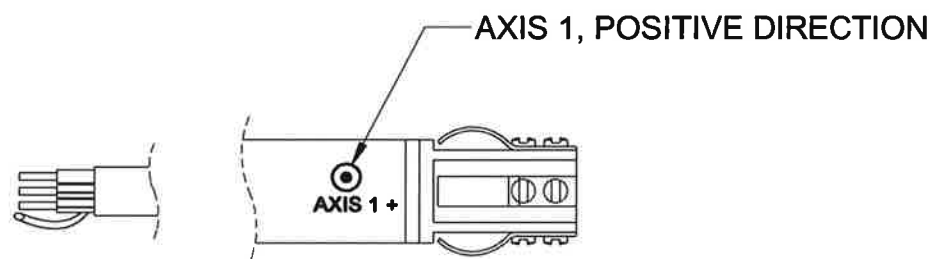
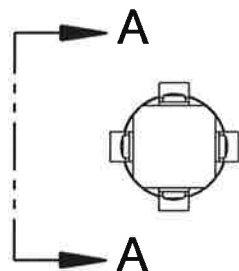
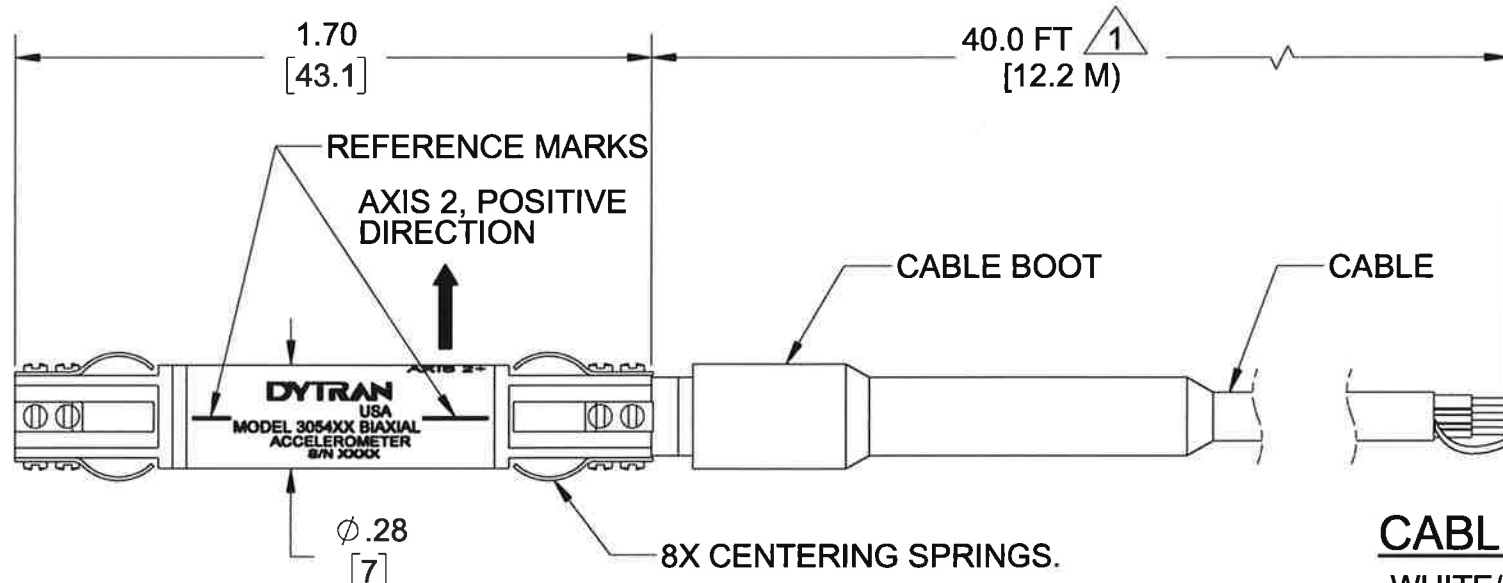
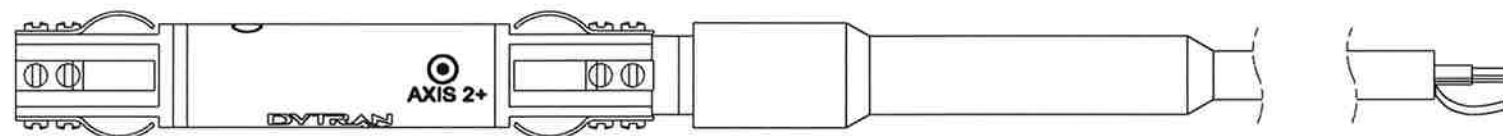
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
D	3054B	ADDED TABULATION, INITIAL RELEASE OF 3054B1-4, REDRAWN ON SOLIDWORKS	RA, 10/20/17	MH	LD

1 CABLE LENGTH TOLERANCE

≤1FT	+1/ -0 IN
>1 FT - 5 FT	+2/ -0 IN
> 5 FT - 10 FT	+4/ -0 IN
>10 FT - 25FT	+6 / -0 IN
>25 FT	+5% / -0%

MODEL	REV	ECN	DATE	SPRING SET	TUBE I.D. MIN
3054B	G	13088	11/09/16	6567A	∅ .318
3054B1	A	13801	10/20/17	6567A1	∅ .552
3054B2	A	13801	10/20/17	6567A4	∅ .438
3054B3	A	13801	10/20/17	6567A5	∅ .650
3054B4	A	13801	10/20/17	6567A6	∅ .912
3054M1	F	13088	11/09/16	6567A2	∅ .650



VIEW A-A SCALE 2 : 1

CABLE COLOR CODE

WHITE/BLUE	AXIS 1
WHITE/ORANGE	AXIS 2
WHITE COMMON GND	

AWG	30-7/38 NICKEL PLATED COPPER
TEMP	200 DEG C WIRE RATED
VOLTAGE	600 VOLTS
CONDUCTOR INSULATION	EXTRUDED PTFE, CLEAR, ∅.032 NOM.
LOW NOISE WRAP #1 & #2	CARBON TAPE
SHIELD	38 AWG SILVER PLATED COPPER BRAID, 85% MIN COVERAGE, ∅.050 NOM
JACKET	RED PTFE WRAP
DIAMETER	∅.073 NOM.
SINGLE CONDUCTOR LOW NOISE CABLE	

2 THIS ASSEMBLY IS DESIGNED TO FIT INTO MINIMUM INSIDE DIAMETER TUBE AS INDICATED BY VARIATION TABLE.

1 SEE CABLE TOLERANCE TABLE

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. ⁶³✓
 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.

DECIMALS		METRIC		ANGLES
.XX ±.01	.X ± 0.8			±1°
.XXX ±.005	.XX ±0.25			

APPROVALS		DATE
ORIG	NC	09/08/03
CHK	RA	09/08/03
APP	AS	09/08/03

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE:

DYTRAN MASTER INSTRUMENTS, INC. Chatsworth, CA IN RED

TITLE: **OUTLINE/INSTALLATION DRAWING, 3054B**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3054B	D

SCALE: 1:1 SHEET 1 OF 1

BIAXIAL IEPE ACCELEROMETER

REV A, ECN 13801, 10/25/17



- MINIATURE SIZE
- SUBMERSIBLE
- HERMETICALLY SEALED
- CASE GROUND ISOLATED

PHYSICAL

Weight, Less Cable, Max.
Cable
Mounting Provision, [5]
Material
Sensing Material

ENGLISH		SI	
0.25	oz	7.2	grams
Flying Leads		Flying Leads	
Spring Clips		Spring Clips	
300 Series		300 Series	
Quartz		Quartz	

PERFORMANCE

Sensitivity, ±10% [1]
Range F.S for ± 5 Volts Output (each axis), ±
Frequency Response, ±10% [4]
Resonant Frequency
Equivalent Electrical Noise Floor, Max.
Linearity [2]
Maximum Transverse Sensitivity
Signal Polarity

25	mV/g	2.6	mV/m/s ²
200	g	1962	m/s ²
2 to 500	Hz	2 to 500	Hz
>30	kHz	>30	kHz
0.003	Grms	0.03	m/s ² rms
± 1	% F.S.	± 1	% F.S.
5	%	5	%
Orthogonal & Transverse		Orthogonal & Transverse	

ENVIRONMENTAL

Maximum Vibration, ±
Maximum Shock
Temperature Range
Seal

600	Gpeak	5886	m/s ² peak
1000	Gpeak	9810	m/s ² peak
-65 to +250	°F	-54 to +121	°C
Hermetic		Hermetic	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedance, Typ.
Output Bias Voltage
Discharge Time Constant
Ground Isolation, Min.

2.0 to 20	mA	2.0 to 20	mA
+18 to +30	Volts	+18 to +30	Volts
100	Ω	100	Ω
+7 to +9	VDC	+7 to +9	VDC
0.2 to 1.0	Sec	0.2 to 1.0	Sec
10	MΩ	10	MΩ

This family also includes:

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

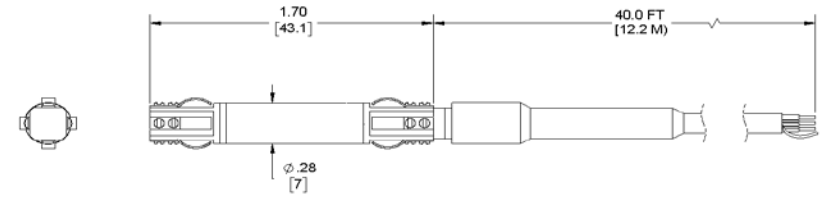
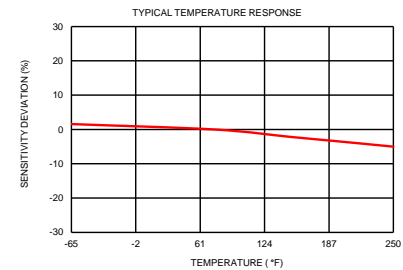
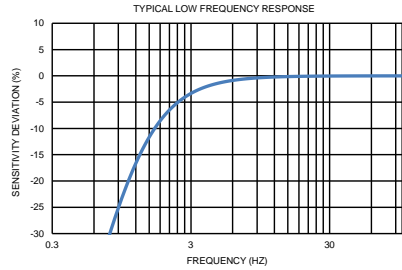
Refer to the performance specifications of the products in this family for detailed description.

Accessories:

- 1) Accredited calibration certificate (ISO 17025) (Supplied)

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 IC charge amplifier.
- [4] Upper frequency response is limited by resonance of mounting springs and body mass.
- [5] Unit slides into Ø.318 min. I.D. tube on springs.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3054B for more information.

