

PROPRIETARY AND CONFIDENTIAL

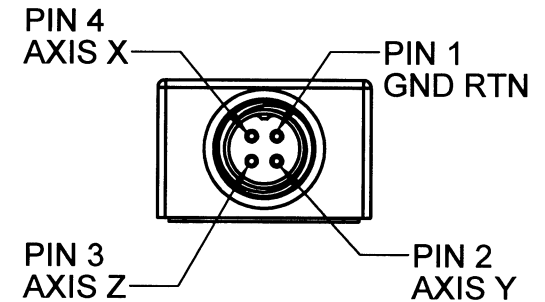
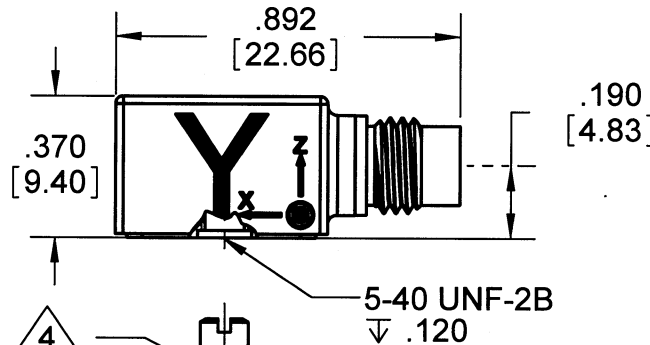
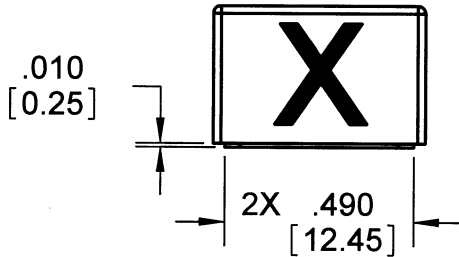
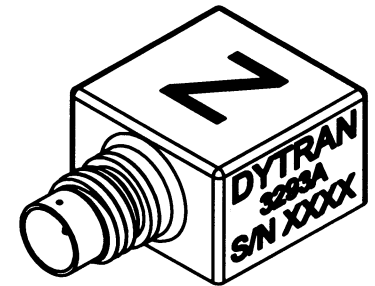
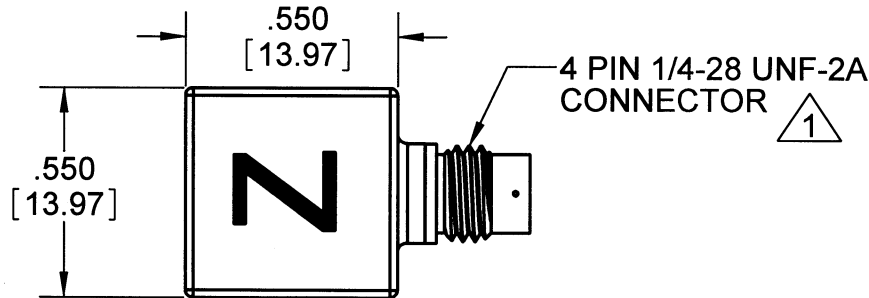
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5980	INITIAL RELEASE	DV 05/11/09	<i>cy</i>	ANS



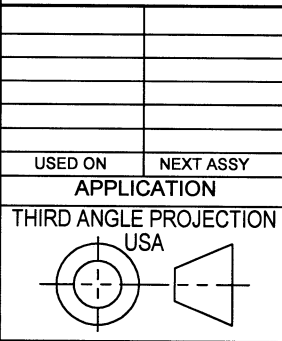
Presented by: Absolute Gauge Technologies
 sales@absolutegauge.com; www.absolutegauge.com
 Toronto: 416 754 3168, Montreal: 514 695 5147
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- 5. HOUSING/CONNECTOR MATERIAL: TITANIUM
- △ 4 MODEL 6580 MOUNTING STUD (SUPPLIED)
- 3. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT
- 2. WEIGHT 8.8 GRAMS APPROXIMATELY
- △ 1 MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE

MOUNTING RECOMMENDATIONS
 PREPARE SURFACE .490 BY .490 MIN, FLAT TO .0001TIR, TAP 5-40 UNF-2B .120 MIN. RECOMMENDED MOUNTING TORQUE 6 - 8 LB IN.

MASTER ONLY IF IN RED



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. 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.

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	02/05/09
CHK	<i>cy</i>	05/12/09
APP	ANS	5/13/09
APP		

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, MODEL 3293A**

SIZE A	CAGE CODE 2W033	DWG. NO. 127-3293A	REV A
SCALE: 2:1		SOLIDWORKS	SHEET 1 OF 1

**MODEL
3293A**

PERFORMANCE SPECIFICATION

**DOC NO.
PS3293A**

Accelerometer, Triaxial, IEPE

REV A, ECN 5980, 05/11/09



Actual Size

- **HIGH SENSITIVITY**
- **LOW NOISE**
- **STUD MOUNTED**

ENGLISH		SI	
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PHYSICAL

Weight
Connector [1]
Housing
Sensing Element

ENGLISH	SI
0.308 oz	8.8 grams
4-pin, 1/4-28	4-pin, 1/4-28
Ti-6 AL-4V	Ti-6 AL-4V
Ti-6 AL-4V	Ti-6 AL-4V
Case Grounded	Case Grounded
Ceramic	Ceramic
Shear	Shear

PERFORMANCE

Sensitivity, ±10% [2]
Acceleration Range, ±
Frequency Range, ±10%
Resonance Frequency, Nom.
Linearity [3]
Transverse Sensitivity Max
Noise floor
Spectral Noise

ENGLISH	SI
500 mV/g	50.97 mV/m/s ²
7 Gpeak	68.67 m/s ² peak
0.25 to 4000 Hz	0.25 to 4000 Hz
>15 kHz	>15 kHz
1 %F.S.	1 %F.S.
6 %	6 %
0.0002 Grms	0.002 m/s ² rms
1Hz 30 μGrms/sqr(Hz)	294.3 μm/s ² rms/sqr(Hz)
10Hz 7 μGrms/sqr(Hz)	68.67 μm/s ² rms/sqr(Hz)
100Hz 9 μGrms/sqr(Hz)	88.29 μm/s ² rms/sqr(Hz)
1000Hz 1 μGrms/sqr(Hz)	9.81 μm/s ² rms/sqr(Hz)
10000Hz 1 μGrms/sqr(Hz)	9.81 μm/s ² rms/sqr(Hz)

ELECTRICAL

Supply Current Range [4]
Compliance Voltage Range
Output Impedance, Typ.
Output Bias Voltage
Discharge Time Constant

ENGLISH	SI
2 to 20 mA	2 to 20 mA
+18 to +30 VDC	+18 to +30 VDC
100 Ω	100 Ω
11 to 13 VDC	11 to 13 VDC
1.0 to 1.5 sec	1.0 to 1.5 sec

ENVIRONMENTAL

Shock Max
Vibration Max
Operating Temperature
Seal
Magnetic Sensitivity at 100 Gauss
Base Strain Sensitivity, Max

ENGLISH	SI
1000 Gpeak	9810 m/s ²
50 Gpeak	491 m/s ²
-60 to +185 °F	-51 to +85 °C
Hermetic	Hermetic
0.00009 g/Gauss	0.0008829 m/s ² /Gauss
0.002 g/με	0.01962 m/s ² /με

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC(sec.)

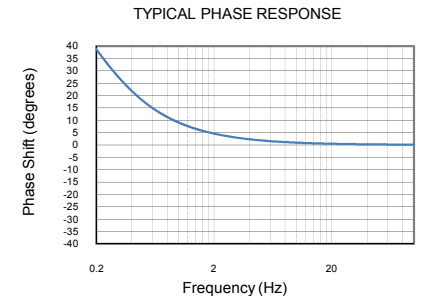
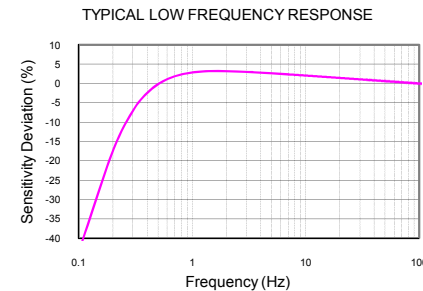
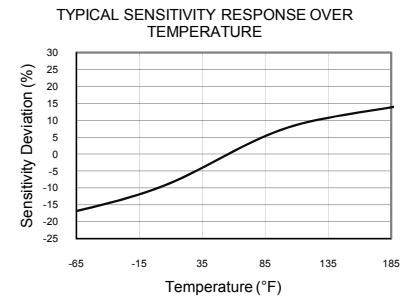
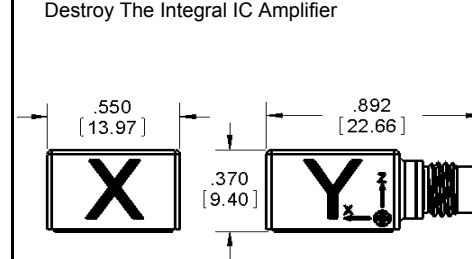
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Model 6580 Mounting Stud
- 2) Accredited Calibration Certificate (ISO 17025)

Notes:

- [1] Glass to Metal Seal connector. Mates with Dytran cable Model 6811AXX or 6824AXX (XX=length in feet)
- [2] Measured At 100 Hz, 1 Grms per ISA RP 37.2
- [3] Linearity
- [4] Do Not Apply Power To This Device Without Current Limiting, 20mA Max, To Do So Will Destroy The Integral IC Amplifier



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3293A for more information.



Presented by: Absolute Gauge Technologies
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