

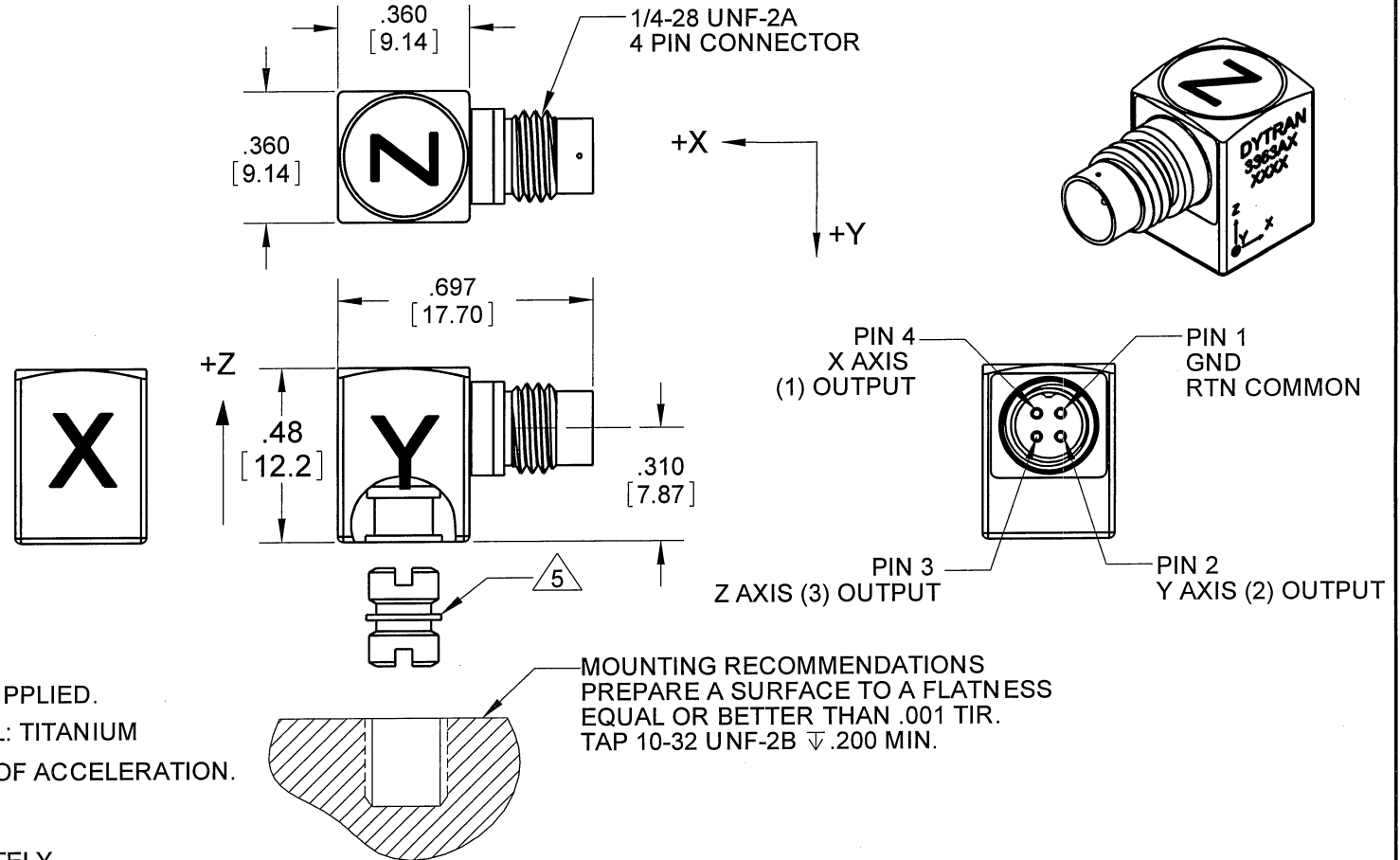
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REVISIONS

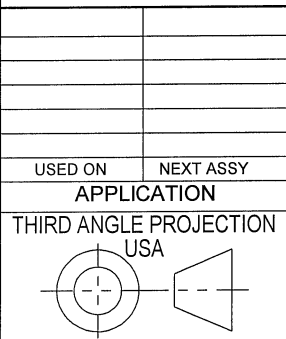
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6748	INITIAL RELEASE	RA 05/05/10	<i>Ep</i>	<i>JL</i>

MODEL	SENSITIVITY.
3363A1	10mV/G
3363A2	100mV/G
3363A3	50mV/G



- 5. MOUNTING STUD MODEL 6200 SUPPLIED.
 - 4. HOUSING/CONNECTOR MATERIAL: TITANIUM
 - 3. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT.
 - 2. SENSITIVITY: SEE CHART
 - 1. WEIGHT: 4.0 GRAMS APPROXIMATELY
- NOTES: UNLESS OTHERWISE SPECIFIED.

MOUNTING RECOMMENDATIONS
PREPARE A SURFACE TO A FLATNESS
EQUAL OR BETTER THAN .001 TIR.
TAP 10-32 UNF-2B ∇ .200 MIN.



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. \checkmark 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 \pm .03 .X \pm 0.8 \pm 1°
.XXX \pm .010 .XX \pm 0.25

MATERIAL _____

FINISH _____

DO NOT SCALE DRAWING

CONTRACT NO. _____

APPROVALS		DATE
ORIG	RA	04/27/10
CHK	<i>Ep</i>	05/20/10
APP	<i>JL</i>	5/23/10
APP		

DYTRAN
INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION
DRAWING, 3363A SEIRES**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3363A	A

SCALE: 4:1 SOLIDWORKS SHEET 1 OF 1

Model Number 3363A1	PERFORMANCE SPECIFICATION		DOC NO PS3363A1
	Accelerometer, Triaxial, IEPE		REV A, ECN 6748 04/30/10



Actual Size

- **ULTRA LOW FREQUENCY RESPONSE**
- **ULTRA LOW NOISE LEVEL**
- **STUD MOUNT**

ENGLISH		SI	
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PHYSICAL

Weight	0.14	oz	4.0	grams
Mounting	10-32 UNF-2B		10-32 UNF-2B	
Connector [1]	4-pin	Type	4-pin	
		Material	Ti-6 AL-4V	
Housing	Ti-6 AL-4V	Material	Ti-6 AL-4V	
		Isolation	Case ground	
Sensing Element	Ceramic	Material	Ceramic	
		Mode	Shear	

PERFORMANCE

Sensitivity, +15-10% [2]	10	mV/g	1.02	mV/m/s ²
Acceleration Range	+/-500	Gpeak	+/-4905	m/s ² peak
Frequency Range, ±5%	.3-5,000	Hz	.3-5,000	Hz
Frequency Range, +15/-10%	.21-10,000	Hz	.21-10,000	Hz
Phase Response, ±5°	2 to 3000	Hz	2 to 3000	Hz
Resonance Frequency	>24	kHz	>24	kHz
Linearity [3]	1	%F.S.	1	%F.S.
Transverse Sensitivity Max	5	%	5	%
Noise floor	0.0012	Grms	0.012	m/s ² rms
Spectral Noise				
1Hz	335	μGrms/sqr(Hz)	3286	μm/s ² rms/sqr(Hz)
10Hz	58	μGrms/sqr(Hz)	569	μm/s ² rms/sqr(Hz)
100Hz	36	μGrms/sqr(Hz)	353	μm/s ² rms/sqr(Hz)
1000Hz	17	μGrms/sqr(Hz)	167	μm/s ² rms/sqr(Hz)
10000Hz	9	μGrms/sqr(Hz)	88	μm/s ² rms/sqr(Hz)

ELECTRICAL

Supply Current Range [4]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.	100	Ω	100	Ω
Output Bias Voltage	+11 to +13	VDC	+11 to +13	VDC
Discharge Time Constant	1.0 to 1.4	sec	1.0 to 1.4	sec

ENVIRONMENTAL

Shock Max	5000	g pk	49050	m/s ²
Vibration Max	3000	g pk	29430	m/s ²
Operating Temperature	-60 to +250	°F	-51 to +121	°C
Seal	Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss	0.00007	g/Gauss	0.00069	m/s ² /Gauss
Base Strain Sensitivity	0.02	g/με	0.20	m/s ² /με

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3273A2	100	50	0.0007	-60 to +180	1.0 to 1.4
3273A3	50	100	0.0009	-60 to +200	1.0 to 1.4

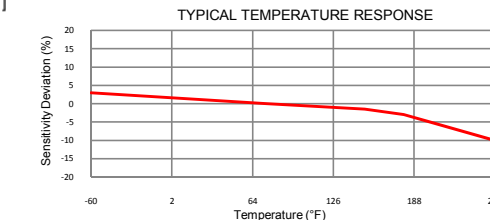
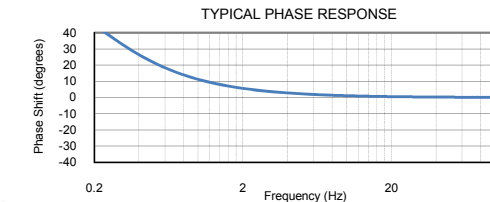
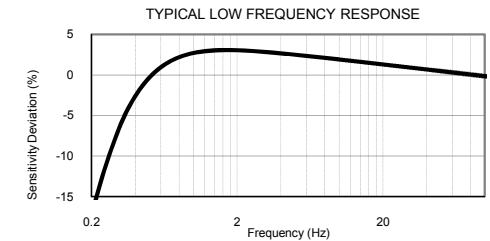
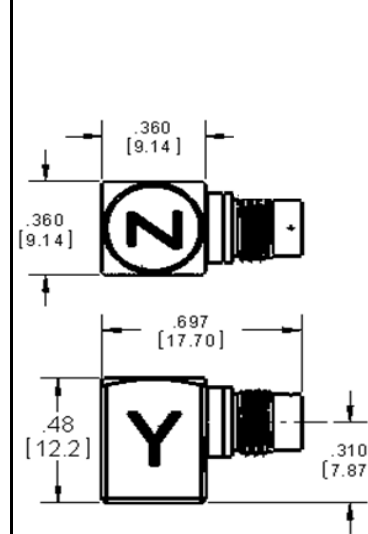
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting stud, model 6200

Notes:

- [1] Glass to metal seal connector. Mates with Dytran cable model 6811AXX or 6824AXX (XX=length in feet)
- [2] Measured at 100 Hz, 5 Grms per ISA RP 37.2
- [3] Linearity is % of specified full scale (or any less full-scale range), zero-based best fit straight line method.
- [4] Do not apply power to this device without current limiting, 20mA Max, to do so will destroy the integral IC amplifier
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3363A for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880
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