

4

3

DWG NO

127-7563A1

ISH

1

REV

C

2

1

PROPRIETARY AND CONFIDENTIAL

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MODEL INPUT RANGE

7563A1	±2g
7563A2	±50g
7563A3	±100g
7563A4	±400g

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	12797	ZONE 2C: 2X ϕ .180 THRU WAS: 2X ϕ .195 THRU ZONE 3D: 1.000 ±.005 WAS: 1.00	LN 07/05/16	DV	AS
C	13409	SEE ECN	EP 04/07/17	MH	AS

CONNECTOR, 4-PIN,
GLENAIR P/N : 805-006-13Z1 8-4PA

MASTER
KEYWAY

PIN 1
COMMON
POWER (+)

PIN 2
Y-AXIS (2)
OUTPUT
(GND)

PIN 4
X-AXIS (1)
OUTPUT
(GND)

PIN 3
Z-AXIS (3)
OUTPUT
(GND)

.5000-.1P-.3L-TS-2A
THREAD

1/4-28 UNF-2B

3X ϕ .047
LOCKWIRE HOLES

5. MINOR VOIDS, SCARS, SCRATCHES AND MOUNTING BLEMISH/WITNESS MARKS ON EXTERIOR SURFACES ARE ALLOWED DUE TO RESTRAINING AND HANDLING DURING TESTING, TRANSPORT OR PROCESSING. THESE APPEAR AS INDICATORS THAT DO NOT AFFECT FORM, FIT OR FUNCTION AS INTENDED BY DESIGN OR APPLICATION

4 MARKING DENOTES LOCATION OF SENSING ELEMENT'S CENTER OF MASS

3 MATES WITH GLENAIR P/N: 805-001-16Z1 8-4SA AND 805-002-16Z1 8-4SA

2. WEIGHT: 85 GRAMS, MAX.

1. MATERIAL: 300 SERIES STAINLESS STEEL

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.
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:

DECIMALS
.XX ±.03
.XXX ±.010

METRIC
.X ± 0.8
.XX ± 0.25

ANGLES
±1°

APPROVALS

DATE

ORIG LN

09/29/15

CHK EP

06/28/16

APP DV

06/28/16

DO NOT SCALE DRAWING



Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DWG,
TRIAxIAL CVLD ACCEL, 7563A
SERIES**

SIZE

CAGE CODE

DWG NO

127-7563A1

REV

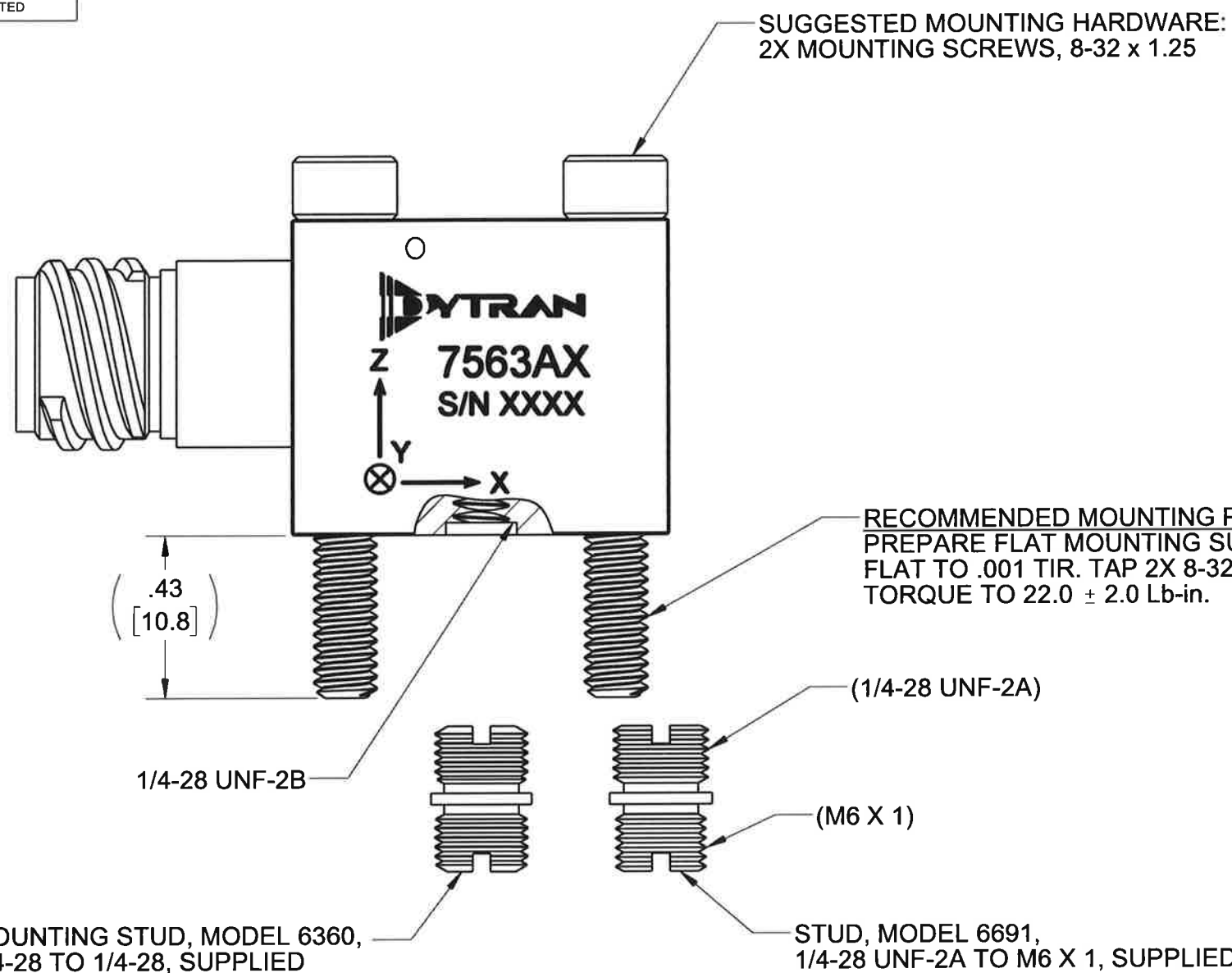
C

SCALE: 2:1

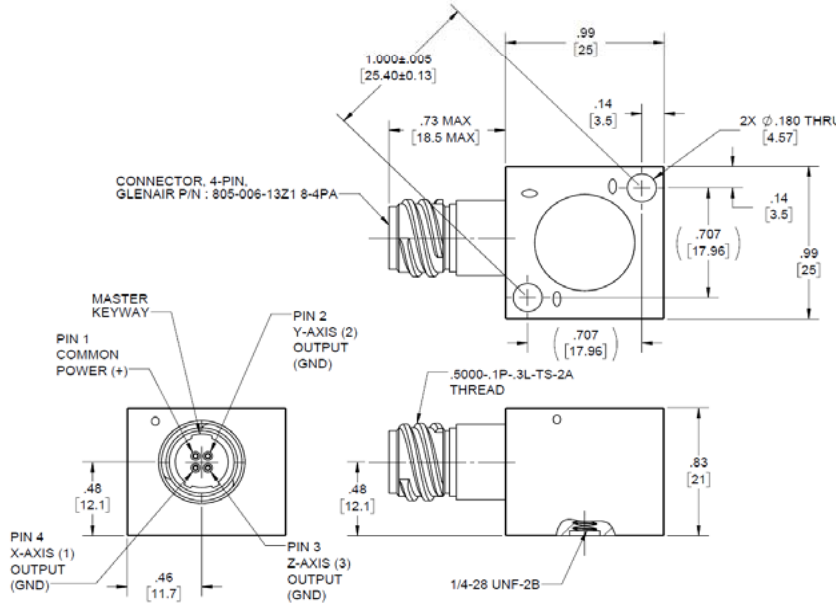
SHEET 1 OF 2

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MASTER ONLY IF IN RED			
 Chatsworth, CA			
TITLE: OUTLINE/INSTALLATION DWG, TRIAxIAL CVLD ACCEL, 7563A SERIES			
SIZE B	CAGE CODE 2W033	DWG NO 127-7563A1	REV C
SCALE: 2:1		SHEET 2 OF 2	

Model Number 7563A1		PERFORMANCE SPECIFICATIONS				DOC NO PS7563A1																									
		VARIABLE CAPACITANCE TRIAXIAL ACCELEROMETER				REV C, ECN 13409, 04/07/17																									
		• VARIABLE CAPACITANCE ACCELEROMETER • CURRENT OUTPUT • HERMETICALLY SEALED • DC RESPONSE • 4-20 mA LOOP COMPATIBLE																													
		ENGLISH		SI																											
PHYSICAL																															
Weight, Max		3.0	oz	85	grams																										
Connector [1]	Type	Receptacle, 4-pin		Receptacle, 4-pin																											
Mounting	Thru Holes	2 X Ø.180"		2 X Ø 4.57mm																											
	Tapped hole	1/4-28 UNF-2B		1/4-28 UNF-2B																											
Material		300 Series S.S.		300 Series S.S.																											
PERFORMANCE																															
Input Range		±2	g	±19.6	m/s ²																										
Frequency Response (-3dB), ± 50Hz		0-400	Hz	0-400	Hz																										
Sensitivity Differential, ±10%		2,500	µA/g	255	µA/m/s ²																										
Output Noise, Differential ,Typ		5	µ g rms/√ Hz	49	µ m/s ² /√ Hz																										
Non-Linearity, Max [2]		0.5	% F.S	0.5	% F.S																										
Transverse Sensitivity, Max		4	%	4	%																										
Scale Factor Calibration Error, Max		2	%	2	%																										
ENVIRONMENTAL																															
Maximum Mechanical Shock		2000	gpk	19620	m/s ² peak																										
Bias Temperature Shift ,Max [3]		111	(ppm of span)/°F	200	(ppm of span)/°C																										
Bias Calibration Error		1.5	% of span	1.5	% of span																										
Operating Temperature Range		-55 to +257	°F	-48 to +125	°C																										
Scale Factor Temperature Shift [3]		-111 to 0	ppm/°F	-200 to 0	ppm/°C																										
Seal		Hermetic		Hermetic																											
ELECTRICAL																															
Bias Current		14-15	mA	14-15	mA																										
Output Impedance,Nom		400	Ω	400	Ω																										
Operating Voltage		10-36	VDC	10-36	VDC																										
Operating Voltage Rise Time		< 2	ms	< 2	ms																										
Full Scale Output		±5	mA	±5	mA																										
Power Supply Rejection Ratio		>65	dB	>65	dB																										
		This family also includes: <table><tr><th>Model</th><th>Input Range (g)</th><th>Frequency response (Hz)</th><th>Sensitivity Differential, ±10% (µA/g)</th><th>Max.Shock (gpk)</th><th>Noise Differential (µg rms/√Hz)</th></tr><tr><td>7563A2</td><td>± 50</td><td>0-2000</td><td>100</td><td>5000</td><td>50</td></tr><tr><td>7563A3</td><td>± 100</td><td>0-2500</td><td>50</td><td>5000</td><td>100</td></tr><tr><td>7563A4</td><td>± 400</td><td>0-2500</td><td>12.5</td><td>5000</td><td>400</td></tr></table> Refer to the performance specifications of the products in this family for detailed description. Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Model 6360 mounting stud, 1/4-28 to 1/4-28 . Qty. 1 3) Model 6691 mounting stud, 1/4-28 to M6x1 . Qty. 1 Notes: [1] Glenair P/N 805-006-13Z1 8-4PA. Mates with 805-001-16Z1 8-4SA and 805-002-16Z1 8-4SA [2] -90% to +90% of Full Scale. [3] Over the rated temperature range.  Units on the line drawing are in inches, dimensions in brackets [] are in millimeters. Refer to 127-7563A1 for more information.						Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (µA/g)	Max.Shock (gpk)	Noise Differential (µg rms/√Hz)	7563A2	± 50	0-2000	100	5000	50	7563A3	± 100	0-2500	50	5000	100	7563A4	± 400	0-2500	12.5	5000	400
Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±10% (µA/g)	Max.Shock (gpk)	Noise Differential (µg rms/√Hz)																										
7563A2	± 50	0-2000	100	5000	50																										
7563A3	± 100	0-2500	50	5000	100																										
7563A4	± 400	0-2500	12.5	5000	400																										



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