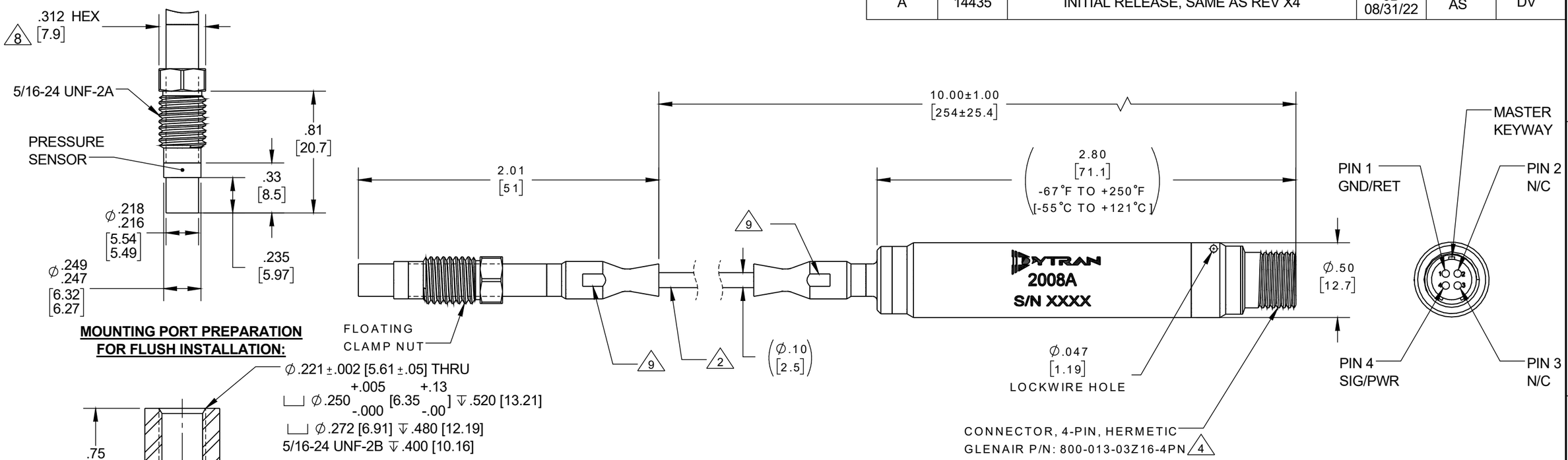
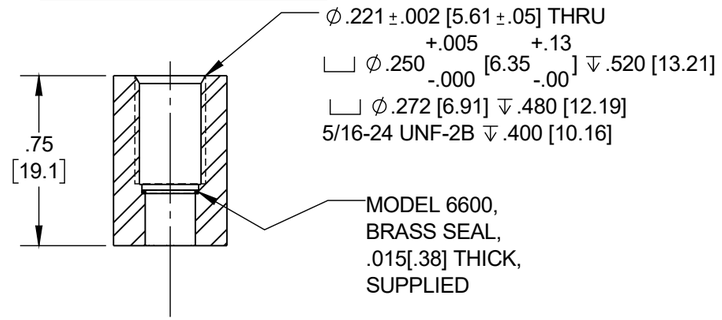
DWG NO 127-2008A SH 1 REV A

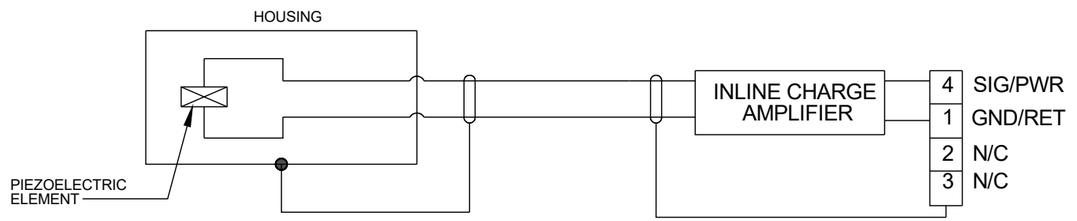
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14435	INITIAL RELEASE, SAME AS REV X4	JB 08/31/22	AS	DV



MOUNTING PORT PREPARATION FOR FLUSH INSTALLATION:





SCHEMATIC DIAGRAM

△9 FLAT FEATURE IS NOT DESIGNED FOR TORQUING UNIT WHEN MOUNTING.

△8 RECOMMENDED TORQUE ON CLAMP NUT : 25-35 LB-IN [2.82 - 3.95 N-m]

7. 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.
6. ALL UNITS ARE PROOF TESTED TO 5000 psi.
5. OPERATING TEMPERATURE: -320 °F TO +600 °F [-195.6 °C TO +315.6 °C] (SENSOR END ONLY)

△4 MATING CONNECTORS: GLENAIR P/N: 800-006-06M6-4SN (STANDARD COUPLING NUT) OR 800-006-16M6-4SN (COUPLING NUT WITH ANTI-DECOUPLING WAVE SPRING)

3. WEIGHT: 60 GRAMS, MAX.

△2 HARDLINE CABLE, 2-CONDUCTOR: - JACKET: STAINLESS STEEL
- INSULATION: SILICON DIOXIDE
- CONDUCTORS: STAINLESS STEEL
- MINIMUM BEND RADIUS: 1.0 IN.

1. HOUSING / DIAPHRAGM MATERIAL: 304L 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.

63 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	METRIC	ANGLES
.XX ±.03	.X ±0.8	±1°
.XXX ±.010	.XX ±0.25	

APPROVALS		DATE
ORIG	LN	06/05/17
CHK	AM	05/17/22
APP	DV	12/13/2022

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE: OUTLINE/INSTALLATION DWG, HIGH TEMPERATURE PRESSURE SENSOR, MODEL 2008A

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-2008A	A

SCALE: 1:1 SHEET 1 OF 1

172-0186 REV A

MODEL NUMBER	PERFORMANCE SPECIFICATION	DOC NO.
2008A		PS2008A
	DYNAMIC PRESSURE SENSOR, IEPE	REV A, ECN 14435, 08/22/22

- **WIDE TEMPERATURE RANGE**
- **ACCELERATION COMPENSATION**
- **ELECTRICALLY ISOLATED HOUSING**
- **HERMETICALLY SEALED**

		ENGLISH		SI	
PHYSICAL					
Weight, Max. (Cable Included)		1.8	oz	50	grams
Mounting Provision		5/16-24 UNF-2A		5/16-24 UNF-2A	
Connector [1]	Type	4 PIN		4 PIN	
Housing/ Diaphragm Material		304L		304L	
Sensing Element		Quartz		Quartz	
PERFORMANCE					
Sensitivity ± 10%		1.0	mV/psi	1.45E-04	mV/Pa
Range F.S for ± 5V peak out		±5000	psi	±34.5	MPa
Maximum Pressure (static)		10000	psi	68.9	MPa
Equivalent Electrical Noise (Resolution)		0.3	psi	2068	Pa
Frequency Response, ±3dB		0.8 to 10000	Hz	0.8 to 10000	Hz
Mounted Resonant Frequency		>200	kHz	>200	kHz
Minimum Rise Time of Input Pulse		2	µsec	2	µsec
Discharge Time Constant		0.2 to 1	sec	0.2 to 1	sec
Linearity [2]		±1	%F.S	±1	%F.S
Acceleration Sensitivity, Axial Direction, Max.		0.006	psi/g	41.4	Pa/g
ENVIRONMENTAL					
Maximum Shock		5,000	g pk	49033	m/s^2 pk
Temperature Range, Sensor End		-320 to +600	°F	-196 to +316	°C
Temperature Range, Connector End		-67 to +250	°F	-55 to +121	°C
Maximum Flash Temperature		3000	°F	1649	°C
Thermal Coefficient Of Sensitivity		0.05	% / °F	0.09	% / °C
Environmental Seal		Hermetic		Hermetic	
Ground Isolation, Min		10	MΩ	10	MΩ
ELECTRICAL					
Excitation Voltage Range		21 to 30	VDC	21 to 30	VDC
Excitation Current Range [3]		4 to 20	mA	4 to 20	mA
Output Impedance, Nom.		100	Ω	100	Ω
Output Bias Voltage		7.5 to 14	VDC	7.5 to 14	VDC
Output Signal Polarity		Positive		Positive	
Discharge Time Constant		4	sec	4	sec

This family also includes:

Model	Sensitivity (mV/psi)	Range (psi pk)	Resolution (Grms)	Oper. Temp(°F)	TC (Sec)

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

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)
2) Sealing Washer, Model 6600, Qty. 1

Notes:

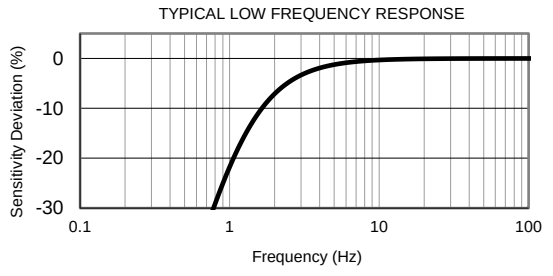
[1] Glenair P/N: 800-013-03Z16-4PN. Mates with Glenair P/N: 800-006-06M6-4SN or 800-006-16M6-4SN

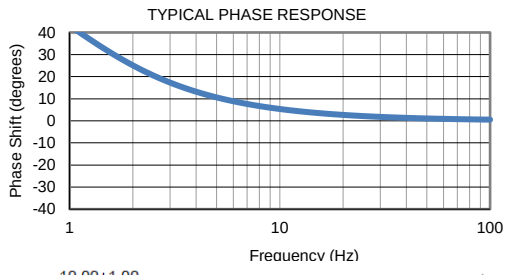
[2] Percent full scale, zero based fit straight line method.

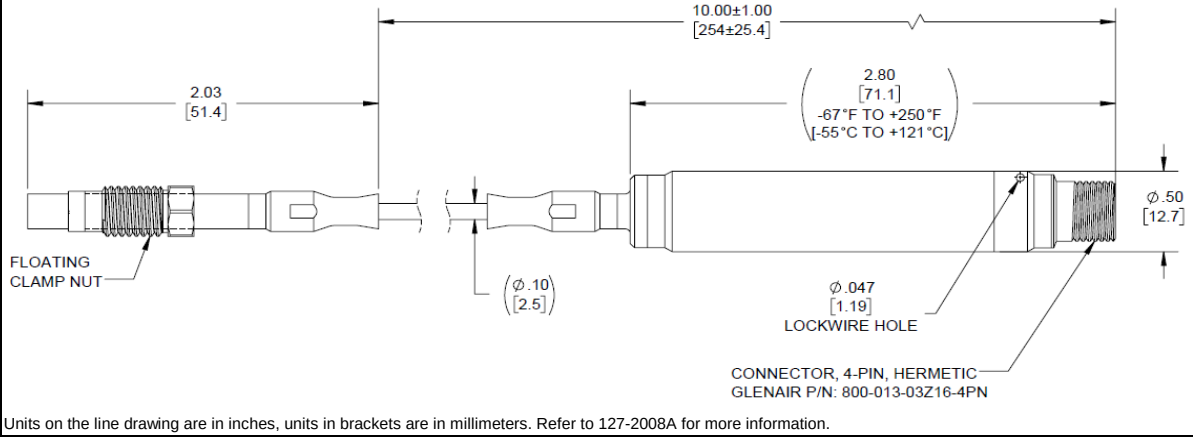
[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the integral amplifier.

[4] In the interest of constant product imporovement, we reserve the right to change specifications without notice.

It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for using in a particular application.Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-2008A for more information.

DYTRAN INSTRUMENTS, INC.

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