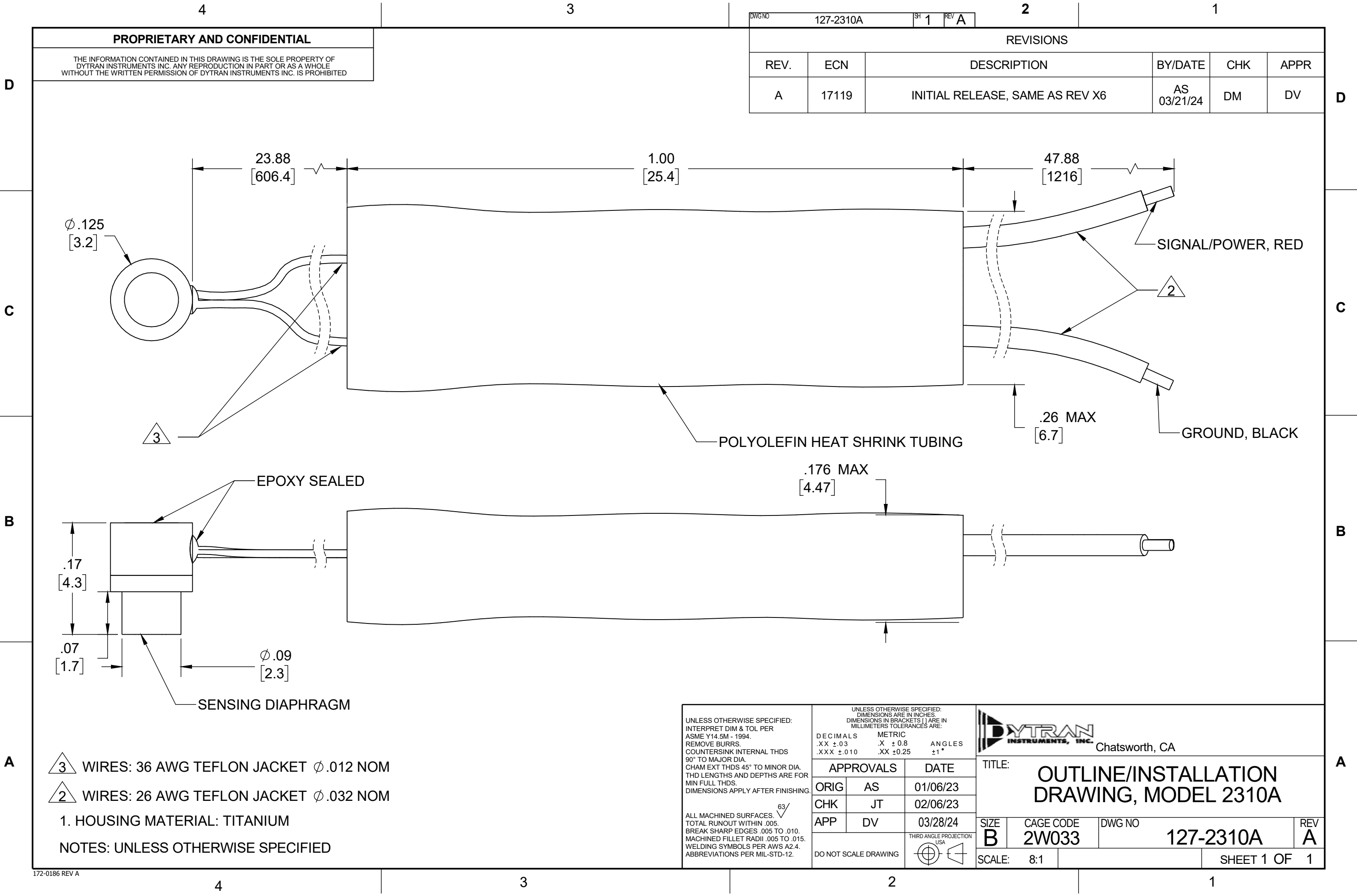




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DWGNO 127-2310A SH 1 REV A

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	17119	INITIAL RELEASE, SAME AS REV X6	AS 03/21/24	DM	DV

23.88

[606.4]

1.00

[25.4]

47.88

[1216]

$\phi .125$

[3.2]

SIGNAL/POWER, RED

2

3

POLYOLEFIN HEAT SHRINK TUBING

.26 MAX

[6.7]

GROUND, BLACK

EPOXY SEALED

.176 MAX

[4.47]

.17

[4.3]

.07

[1.7]

$\phi .09$

[2.3]

SENSING DIAPHRAGM

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	METRIC	ANGLES
.XX ±.03	.X ±.08	±1°
.XXX ±.010	.XX ±0.25	

APPROVALS		DATE
ORIG	AS	01/06/23
CHK	JT	02/06/23
APP	DV	03/28/24

DO NOT SCALE DRAWING



Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION
DRAWING, MODEL 2310A**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-2310A	A

SCALE: 8:1 SHEET 1 OF 1

MODEL NUMBER	PERFORMANCE SPECIFICATION			DOC NO.
2310A				PS2310A
		DYNAMIC PRESSURE SENSOR, IEPE		REV A, ECN17119, 03/21/24



PHYSICAL

Weight, Max. (Less Amplifier, Cable)

Mounting Provision

Connector

Housing/ Diaphragm Material

Sensing Element

Type

ENGLISH

SI

0.2

oz

5

grams

Adhesive

Adhesive

Flying Leads

Flying Leads

Titanium

Titanium

PZT-5A

PZT-5A

PERFORMANCE

Sensitivity $\pm 10\%$

500.0

mV/psi

7.25E-02

mV/Pa

Range F.S for $\pm 5V$ peak out

± 10

psi

± 34.5

MPa

Equivalent Electrical Noise (Resolution)

0.005

psi

34

Pa

Frequency Response, $\pm 3dB$

10-10000

Hz

10-10000

Hz

Mounted Resonant Frequency

>32

kHz

>32

kHz

Linearity [2]

± 1

%F.S

± 1

%F.S

Acceleration Sensitivity, Axial Direction, Max.

0.1

psi/g

689.5

Pa/g

ENVIRONMENTAL

Maximum Shock

1,000

g pk

9807

m/s² pk

Temperature Range, Sensor End

-62 to +250

°F

-55 to +121

°C

Thermal Coefficient Of Sensitivity

0.09

% / °F

0.162

% / °C

Environmental Seal

Epoxy

Epoxy

ELECTRICAL

Excitation Voltage Range

+18 to +30

VDC

+18 to +30

VDC

Excitation Current Range [3]

2 to 20

mA

2 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

$>.05$

sec

$>.05$

sec

This family also includes:

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

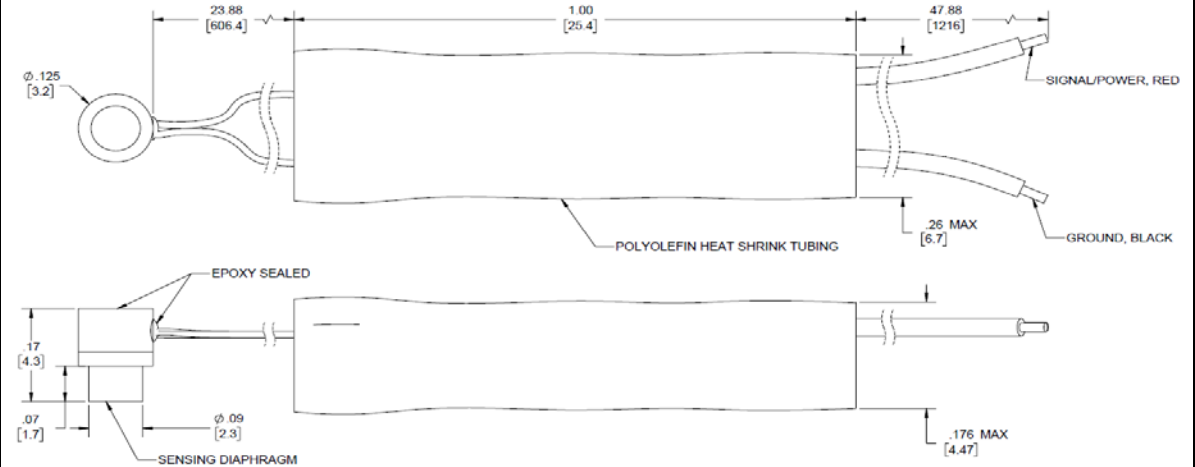
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] All specifications are at room temperature unless otherwise specified.
- [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] 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 127-2310A for more information.



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