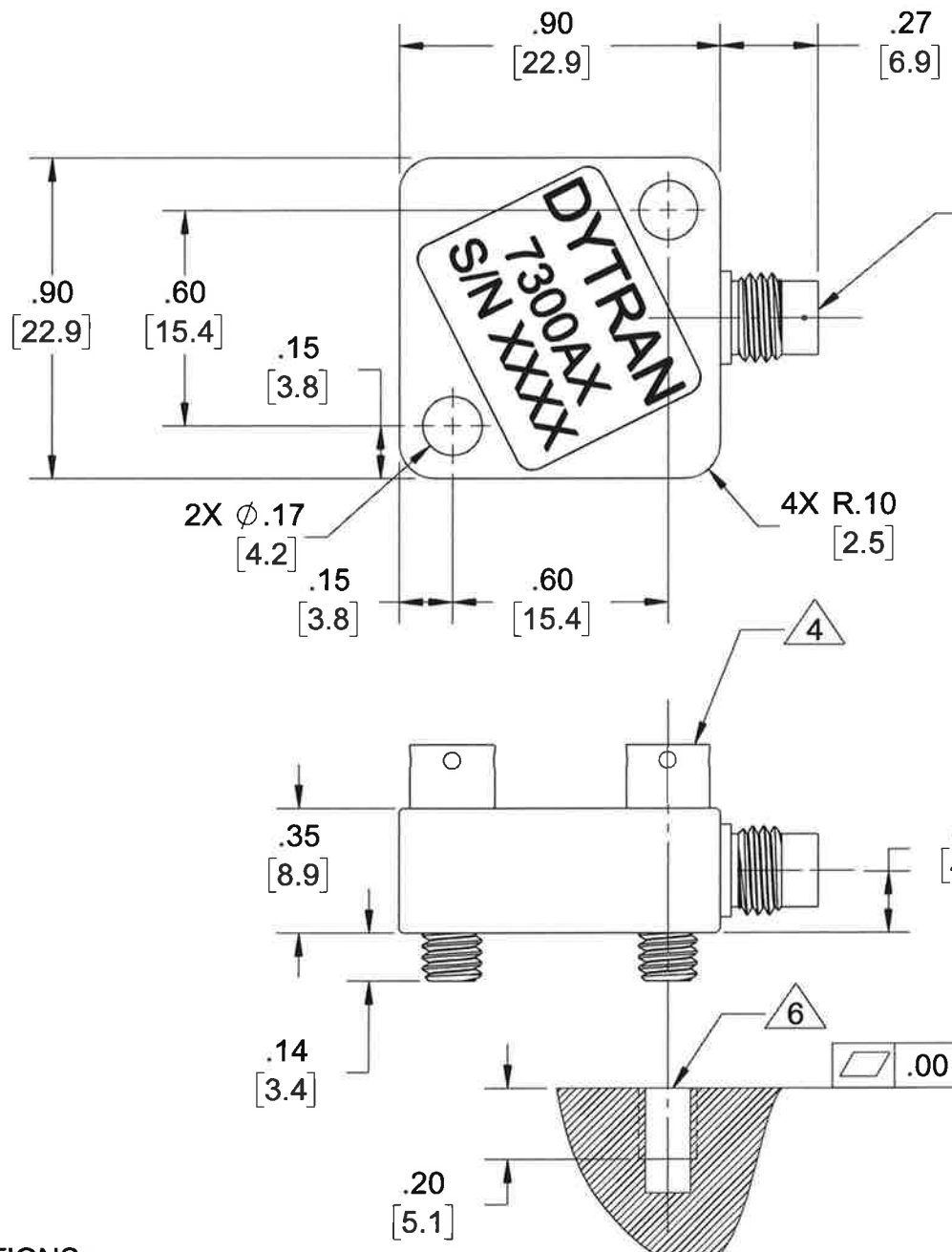


PROPRIETARY AND CONFIDENTIAL

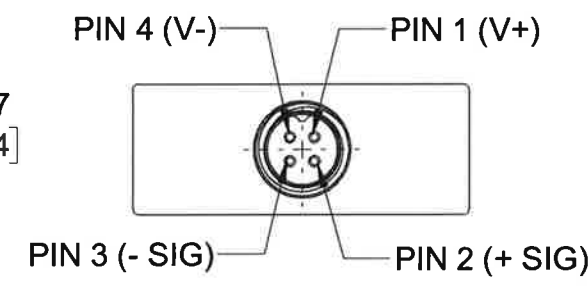
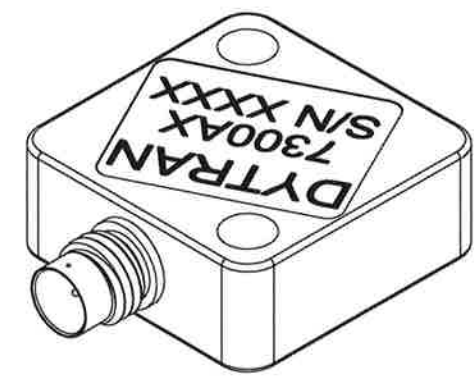
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REVISIONS

| REV. | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
|------|-------|---|-----------------|-----|------|
| A | 11030 | INITIAL RELEASE | NDC 08/13/14 | RT | DV |
| B | 11746 | NOTE 5 IS: ... CABLE PN 6854AXX OR 6877AXX WAS: CABLE PN 6430XX OR 6483XX. | LA 02/09/15 | JS | LN |
| C | 11865 | CONECTOR IS:120-0146-01 WAS: 120-0104-01 | EM 04/16/15 | LA | DV |
| D | 12423 | NOTE 4 WAS: ...MODEL 6535 (2X) & 6692 (2X) ... | LA 01/05/16 | AS | AS |



1/4-28 UNF-2A CONNECTOR ⁵



| MODEL NO | REV | ECN | DATE | RANGE |
|----------|-----|-------|----------|-------|
| 7300A1 | D | 12423 | 01/05/16 | ±2g |
| 7300A2 | D | 12423 | 01/05/16 | ±5g |
| 7300A3 | D | 12423 | 01/05/16 | ±10g |
| 7300A4 | D | 12423 | 01/05/16 | ±25g |
| 7300A5 | D | 12423 | 01/05/16 | ±50g |
| 7300A6 | D | 12423 | 01/05/16 | ±100g |
| 7300A7 | D | 12423 | 01/05/16 | ±200g |
| 7300A8 | D | 12423 | 01/05/16 | ±400g |

- ⁶ MOUNTING RECOMMENDATIONS:
PREPARE FLAT MOUNTING SURFACE EQUAL OR BETTER THAN .001 TIR.
TAP 8-32 UNC-2B ∇.200 MIN. (OR 2X M4x0.7 ∇.20 [5.1] MIN.)
RECOMMENDED TORQUE 10-12 LB-IN. (1.12 - 1.35 N-m).
- ⁵ MATES WITH DYTRAN CABLE PN 6854AXX OR 6877AXX.
- ⁴ MOUNTING SCREW DYTRAN MODEL 6535 (2X) & 6692A12 (2X) PROVIDED.
- 3. HOUSING MATERIAL: ALUMINUM ALLOY, ANODIZED, COLOR: BLUE.
- 2. OPERATING TEMPERATURE: -67°F TO +257°F. (-19°C TO +125°C)
- 1. WEIGHT: 13 GRAMS MAX.

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. 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:

| DECIMALS | METRIC | ANGLES |
|------------|-----------|--------|
| .XX ±.03 | X ±0.8 | ±1° |
| .XXX ±.010 | .XX ±0.25 | |

| APPROVALS | | DATE |
|-----------|----|----------|
| ORIG | AB | 08/12/13 |
| CHK | RT | 09/29/14 |
| APP | DV | 10/08/14 |

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

DYTRAN MASTER
INSTRUMENTS, INC. ONLY IN RED

TITLE: **OUTLINE/INSTALLATION DRAWING, 7300A**

| SIZE | CAGE CODE | DWG NO | REV |
|------|-----------|-----------|-----|
| B | 2W033 | 127-7300A | D |

SCALE: 1:4 SHEET 1 OF 1



- VARIABLE CAPACITANCE ACCELEROMETER
- DIFFERENTIAL MODE
- DC RESPONSE

| ENGLISH | | SI | |
|-------------|--------------------|----|--------------------|
| Weight, Max | 0.4 | oz | 12 |
| Mounting | 2 X Ø.16 | | 2 X Ø.16 |
| Material | Aluminum, Anodized | | Aluminum, Anodized |
| Connector | 1/4-28, 4 pin | | 1/4-28, 4 pin |

| | | | | |
|-------------------------------------|-------|--------------|---------|--------------------------|
| Input Range | ±5 | g | ±49.033 | m/s ² |
| Frequency Response, ±3dB | 0-600 | Hz | 0-600 | Hz |
| Resonant Frequency | >1400 | Hz | >1400 | Hz |
| Sensitivity Differential, ±10% [1] | 800 | mV/g | 81.5 | mV/m/s ² |
| Output Noise, Differential, Typ | 12 | µ g rms/√ Hz | 118 | µ m/s ² /√ Hz |
| Non-Linearity, Max [3] | 0.5 | % F.S | 0.5 | % F.S |
| Transverse Sensitivity, Max | 3 | % | 3 | % |
| Scale Factor Calibration Error, Max | 1 | % | 1 | % |
| Zero Measured Output | ±50 | mV | ±50 | mV |

| | | | | |
|------------------------------------|-------------|------------------|-------------|-----------------------|
| Maximum Mechanical Shock | 2000 | gpk | 19620 | m/s ² peak |
| Bias Temperature Shift, Max [2] | 111 | (ppm of span)/°F | 200 | (ppm of span)/°C |
| Bias Calibration Error, Max | .5 | % of span | .5 | % of span |
| Operating Temperature Range | -67 to +257 | °F | -55 to +125 | °C |
| Scale Factor Temperature Shift [2] | -111 to 111 | ppm/°F | -200 to 200 | ppm/°C |
| Seal | Epoxy | | Epoxy | |

| | | | | |
|------------------------------------|-----------|-------|-----------|-------|
| Output Common Mode Voltage, TYP | 2.45 | | 2.45 | |
| Output Impedance, Nom | 90 | Ω | 90 | Ω |
| Operating Voltage | +5 to +32 | VDC | +5 to +32 | VDC |
| Operating Current (AOP & AON open) | 12 to 14 | mA DC | 12 to 14 | mA DC |
| Power Supply Rejection Ratio | >65 | dB | >65 | dB |
| Case Isolated | 30 | MΩ | 30 | MΩ |

This family also includes:

| Model | Input Range (g) | Frequency response (Hz) | Sensitivity Differential, ±10% (mV/g) | Max.Shock (gpk) | Noise Differential (µg rms/√Hz) |
|--------|-----------------|-------------------------|---------------------------------------|-----------------|---------------------------------|
| 7300A1 | ± 2 | 0-400 | 2,000 | 2000 | 7 |
| 7300A3 | ± 10 | 0-1000 | 400 | 5000 | 18 |
| 7300A4 | ± 25 | 0-1500 | 160 | 5000 | 25 |
| 7300A5 | ± 50 | 0-2000 | 80 | 5000 | 50 |
| 7300A6 | ± 100 | 0-2500 | 40 | 5000 | 100 |
| 7300A7 | ± 200 | 0-1750 | 20 | 5000 | 200 |
| 7300A8 | ± 400 | 0-2000 | 10 | 5000 | 400 |

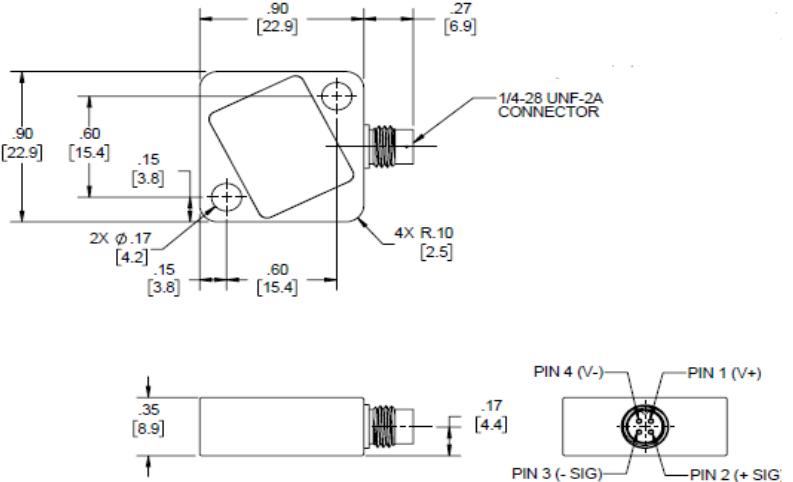
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Two mounting screws model # 6535
- 3) Two mounting screws model # 6692A12

Notes:

- [1] Single ended sensitivity is half of values shown.
- [2] Over the rated temperature range.
- [3] -90% to +90% of Full Scale.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, dimensions in brackets [] are in millimeters. Refer to 127-7300A for more information.

