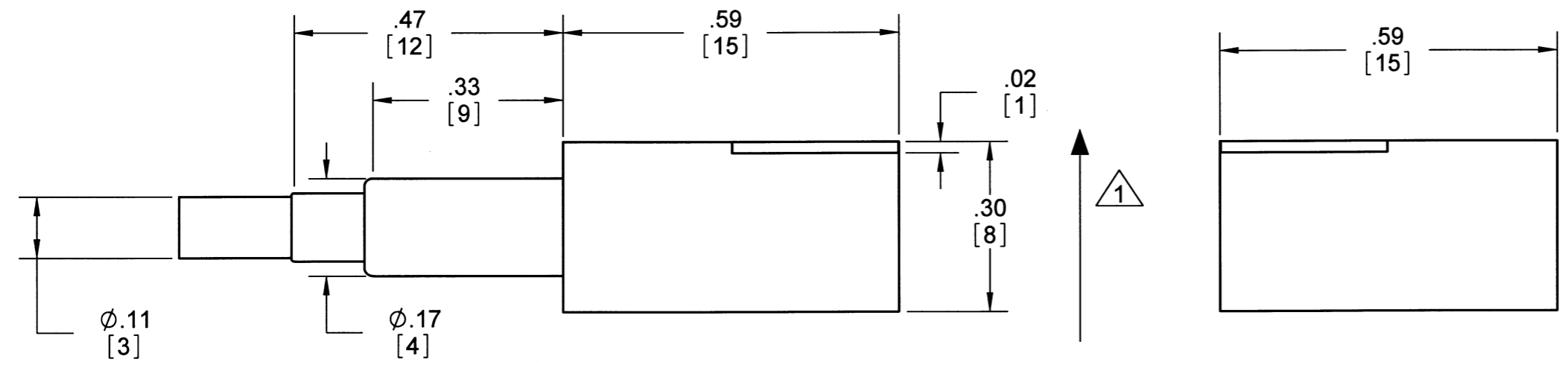
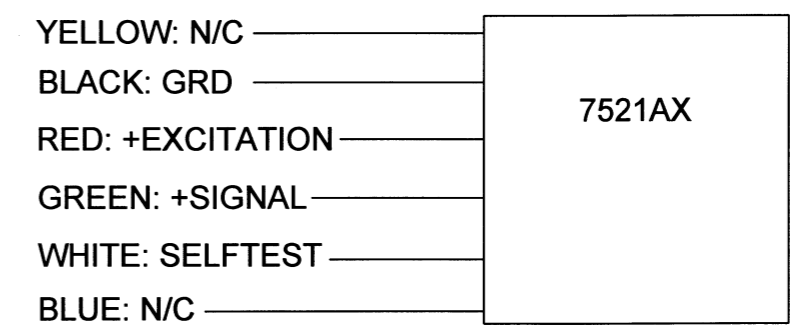
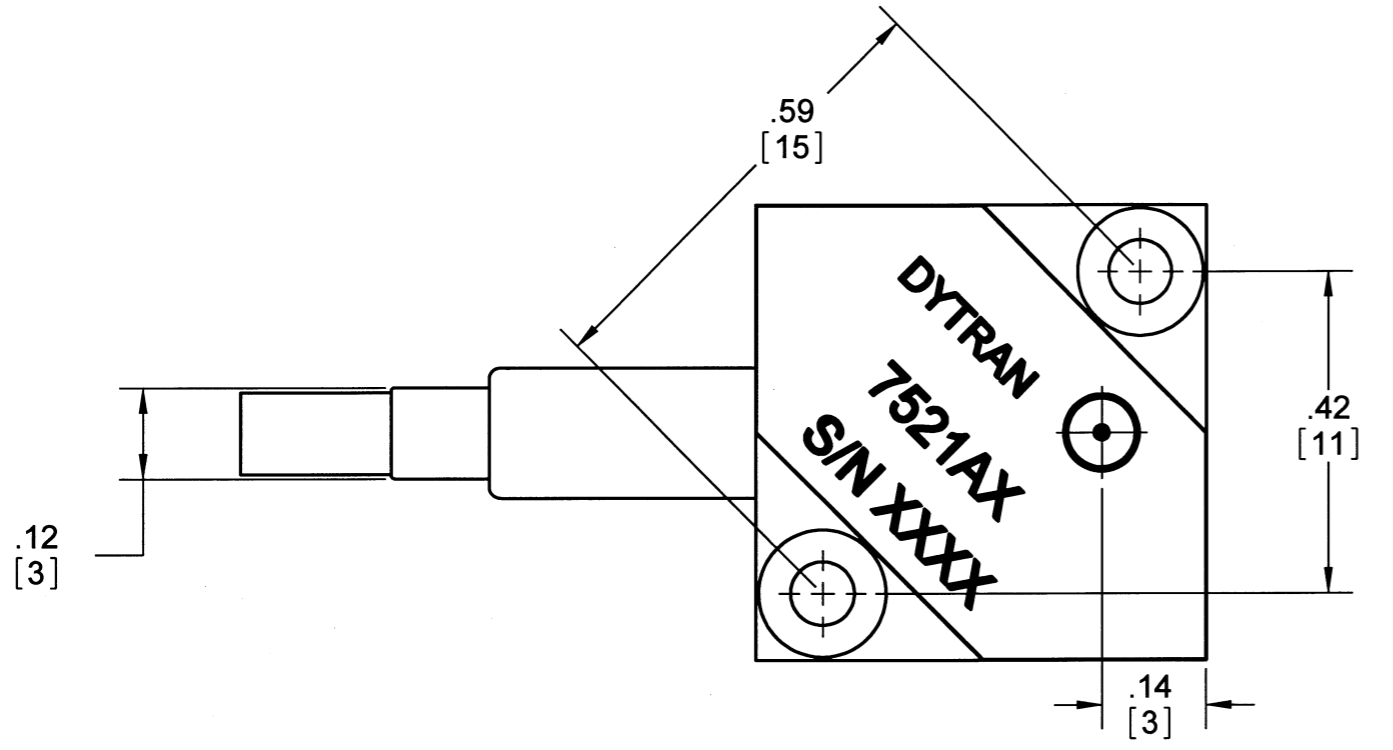


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

| REV. | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
|------|------|--------------------------|----------------|-----|-----------|
| A | 5112 | INITIAL RELEASE | 03/07/08 | CES | PML |
| B | 5263 | REVISED POLARITY MARKING | JS 06/05/08 | RA | DV |
| C | 5547 | SEE ECN | DV 01/05/09 | ANS | <i>DV</i> |



| | |
|--------|---------|
| 7521A1 | 550mV/g |
| 7521A2 | 280mV/g |
| 7521A3 | 93mV/g |
| 7521A4 | 55mV/g |
| 7521A5 | 36mV/g |
| 7521A6 | 18mV/g |
| 7521A7 | 8mV/g |

1 DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT

NOTES: UNLESS OTHERWISE SPECIFIED

| DRILL HOLE SIZE | TOLERANCE |
|------------------|-----------------|
| .0135 THRU .125 | + .004 / - .001 |
| .1260 THRU .250 | + .005 / - .001 |
| .2510 THRU .500 | + .006 / - .001 |
| .5010 THRU .750 | + .008 / - .001 |
| .7510 THRU 1.000 | + .010 / - .001 |
| 1.001 THRU 2.000 | + .012 / - .001 |

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

THIRD ANGLE PROJECTION
 USA

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.
 TOLERANCES ARE:
 DECIMALS XX ± .010
 .XXX ± .005

CONTRACT NO.

APPROVALS

| ORIG | PML | DATE |
|------|-----|----------|
| CHK | CES | 10/18/07 |
| APP | PML | 03/14/08 |
| APP | | |

MATERIAL:

FINISH:

DO NOT SCALE DRAWING

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION DRAWING, 7521A SERIES**

| SIZE | CAGE CODE | DWG NO | REV |
|------|-----------|-----------|-----|
| B | 2W033 | 127-7521A | C |

SCALE: 4:1 SOLIDWORKS SHEET 1 of 1



SPECIFICATIONS, SERIES 7521A ACCELEROMETER

PERFORMANCE BY MODEL NUMBER

| | <u>7521A1</u> | <u>7521A2</u> | <u>7521A3</u> | <u>7521A4</u> | <u>7521A5</u> | <u>7521A6</u> | <u>7521A7</u> | UNITS |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| Input Range | ±2 | ±5 | ±15 | ±33 | ±50 | ±100 | ±225 | g |
| Output, bias, ±10% | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | V |
| Output range | ±1.1 | ±1.4 | ±1.4 | ±1.8 | ±1.8 | ±1.8 | ±1.8 | V |
| Bandwidth | 0-1500 | 0-1500 | 0-1500 | 0-400 | 0-400 | 0-400 | 0-400 | Hz |
| Sensitivity | 550 | 280 | 93 | 55 | 36 | 18 | 8 | mV/g |
| Output Noise (typical) | 3 | 3 | 5 | 25 | 30 | 40 | 55 | mGrms |
| Output Impedance | 3500 | 3500 | 3500 | 500 | 500 | 500 | 500 | Ω |

PERFORMANCE FOR ALL MODEL NUMBERS

| | MIN | NOM | MAX | UNITS |
|-------------------------------------|------------|------------|------------|--------------|
| Maximum Mechanical Shock | | | 4000 | g peak |
| Resonance Frequency | | 5000 | | Hz |
| Transverse Sensitivity | | | 2 | % |
| Operating Temperature | -55 | | +257 | °F |
| Compensated Temperature Range (CTR) | -20 | | +158 | °F |
| Thermal Zero | | | 0.0009 | % FS/°F |
| Thermal Sensitivity Drift | | | 0.0006 | % FS/°F |
| Storage Temperature | -55 | | +302 | °F |
| Non-Linearity | | | 0.3 | % |
| Excitation, regulated | | 4.8-5.2 | | VDC |
| Current consumption, nom | | 2 | | mA |

PHYSICAL PARAMETERS FOR ALL MODEL NUMBERS

| | | | | |
|-----------------------|------------|--------------------------|------------|--------------|
| Case Material | | anodized aluminum | | |
| Cable Length | | 79 | | inch |
| Mounting Provision | | two M2 screws (provided) | | |
| | MIN | NOM | MAX | UNITS |
| Case Length | | 0.59 | | inch |
| Case Width | | 0.59 | | inch |
| Case Height | | 0.30 | | inch |
| Mounting Hole Spacing | | 0.59 | | inch |
| Mass | | | 3.7 | grams |

NOTES:

SUPPLIED ACCESSORIES:

(2) Mounting Screws (Model 6722), M2 x 12 flathead