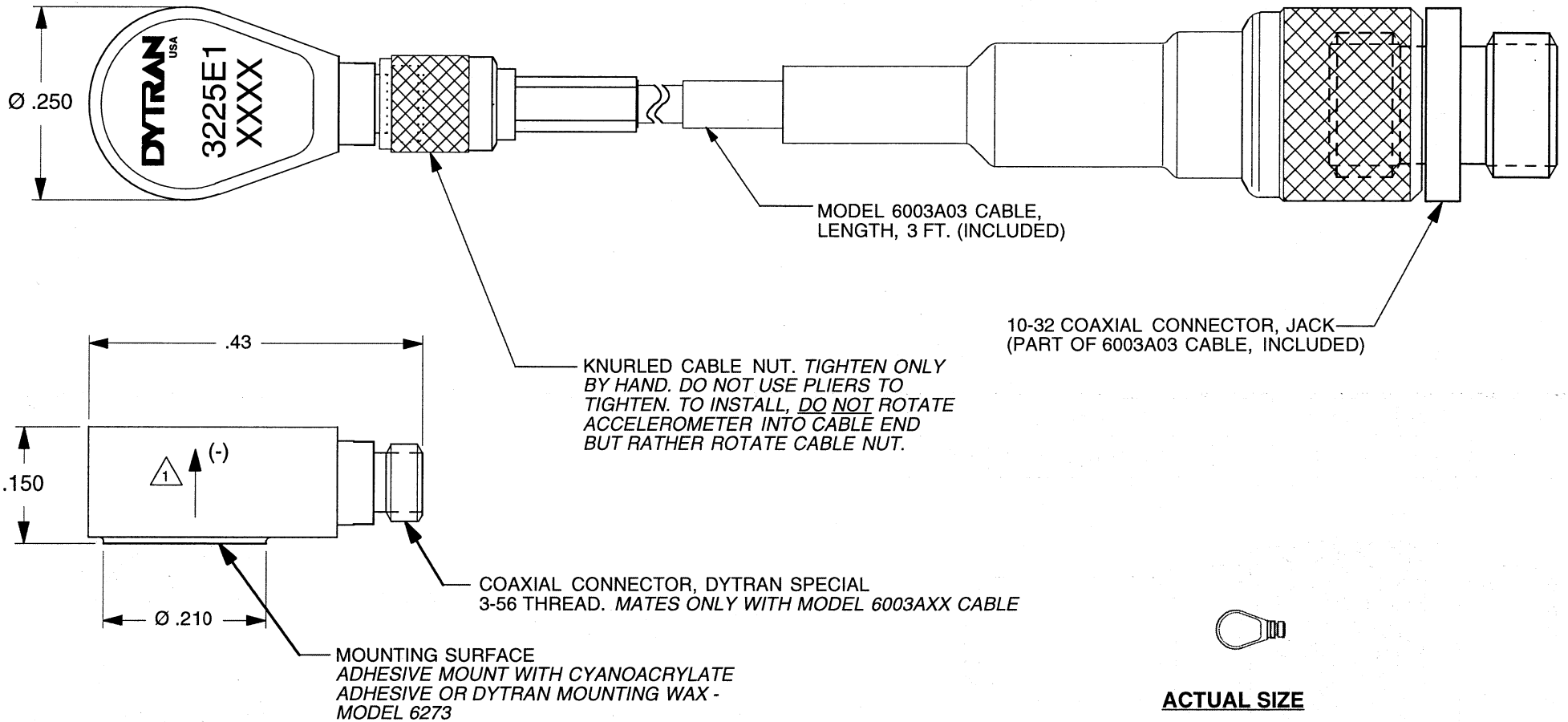
| REV | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
|---|---|---|---|---|---|
| B | 5928 | INCORRECT POLARITY | JS 04/17/09 | | AWS |






**ACTUAL SIZE**

3. CASE AND CONNECTOR MATERIAL: TITANIUM.
2. WEIGHT LESS CABLE: 0.6 GRAMS.

1 ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR NEGATIVE GOING OUTPUT SIGNAL.

**EXCEPT AS OTHERWISE NOTED**

ALL DIMENSIONS IN INCHES
TOLERANCE: .XXX = ± .XX= ±
SURFACE FINISH EXCEPT AS NOTED √
BREAK EDGES TO DEBURR RADIUS OR CHAMFER
△ THESE DIAS ⊙ TO T.I.R.
FILLETS - MAX RAD.

DYTRAN INSTRUMENTS, INC. MASTER ONLY IF IN RED CHATSWORTH, CA.

| | | | | | |
|---|---|---|---|---|---|
| SCALE 5X | REV - | DATE SEE REV BLK | ECN | | |
| DATE 9/24/01 | PART NO. | | | | |
| DRAWN N.C. | CHECKED R.A. | MAT'L | | | |
| APPROVED | NEXT ASSEMBLY | | USED ON | | |

TITLE
**OUTLINE/INSTALLATION DRAWING, MODEL 3225E1**

DWG NO. **127-3225E1**

SHEET 1 OF 1

Dynamic Transducers and Systems
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# SPECIFICATIONS

## MODEL 3225E1 MINIATURE CHARGE MODE ACCELEROMETER

| SPECIFICATION | VALUE | UNITS |
|---|---|---|
| **PHYSICAL** | | |
| WEIGHT | 0.6 | GRAMS |
| SIZE (DIA x LENGTH HEX x HEIGHT) | 0.25 x 0.43 x .150 | INCHES |
| MOUNTING PROVISION | FLAT MOUNTING SURFACE FOR ADHESIVE MOUNT | |
| CONNECTOR, RADIALLY MOUNTED [1] | 3-56 | JACK |
| CASE MATERIAL | TITANIUM | |
| SENSING ELEMENT TYPE | PIEZOCERAMIC PLANAR SHEAR | |
| **PERFORMANCE** | | |
| SENSITIVITY, ±20% [2] [3] | 1.8 | pC/G |
| FREQUENCY RESPONSE, ± 10 % | [3] to 10,000 | Hz |
| MOUNTED RESONANT FREQUENCY, NOM. | 40 | kHz |
| AMPLITUDE NON-LINEARITY (ZERO BASED BEST-FIT ST.LINE METHOD) | 2.0 | % F.S., MAX. |
| TRANSVERSE SENSITIVITY, MAX. | 5 | PERCENT |
| STRAIN SENSITIVITY | .0005 | G's PER MICROSTRAIN @ 250/μσ |
| **ENVIRONMENTAL** | | |
| MAXIMUM VIBRATION | 400 | G's, RMS |
| MAXIMUM SHOCK | 5000 | G's, PEAK |
| TEMPERATURE RANGE | -60 TO 350 | °F |
| THERMAL COEFFICIENT OF SENSITIVITY | SEE GRAPH THIS PAGE | |
| ENVIRONMENTAL SEAL | HERMETIC | |
| **ELECTRICAL** | | |
| OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP | | Negative |
| CASE GROUNDING | Case is grounded | |

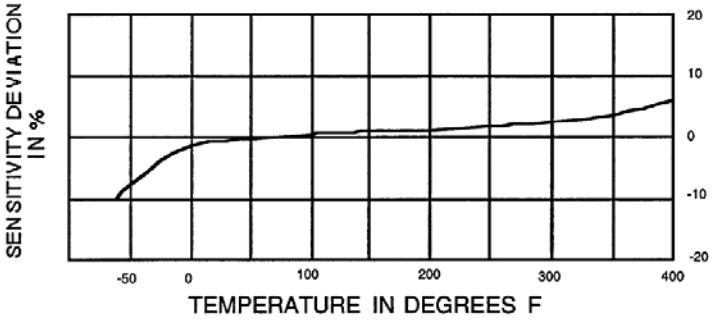
### SUPPLIED ACCESSORIES:

**[1] MODEL 6591A INSTALLATION REMOVAL WRENCH**
**[1] MODEL 6298 SMALL PETRO WAX**

**NOTES:**

[1] CONNECTOR MATES ONLY WITH DYTRAN CABLE MODEL 6003AXX. (XX IS LENGTH IN FEET)
[2] MEASURED AT 100 Hz, 1 G RMS PER ISA RP37.2.
[3] ACTUAL SENSITIVITY IS GIVEN ON A CALIBRATION CERTIFICATE TRACEABLE TO **NIST** , SUPPLIED WITH EACH INSTRUMENT. LOW FREQUENCY RESPONSE IS DEPENDENT UPON THE DISCHARGE TIME CONSTANT OF THE CHARGE AMPLIFIER.

### TYPICAL THERMAL SENSITIVITY GRAPH




### OPERATING INSTRUCTIONS