

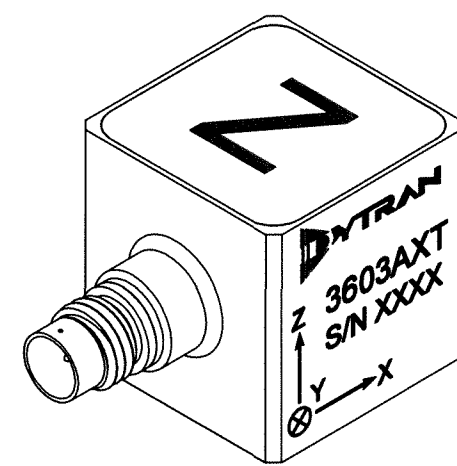
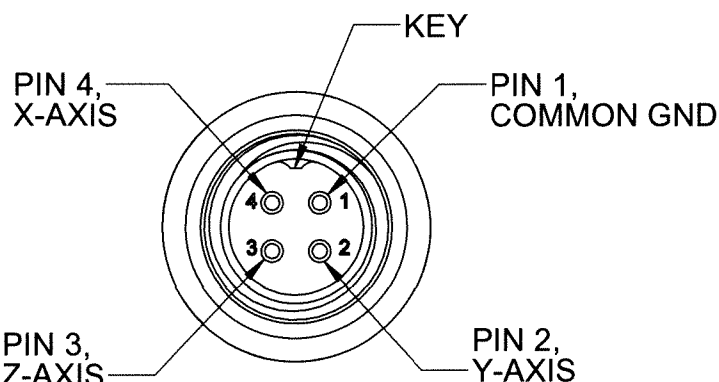
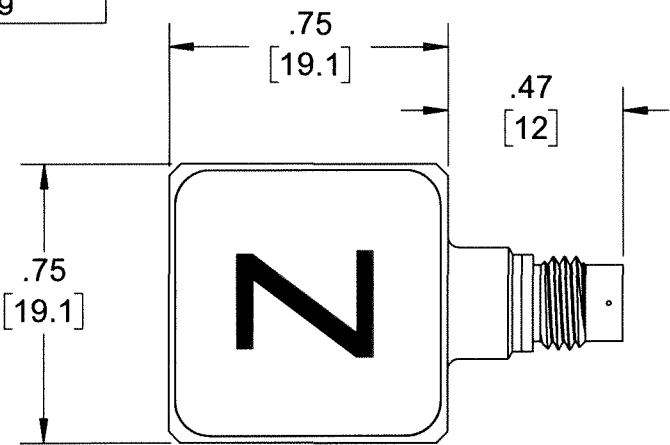
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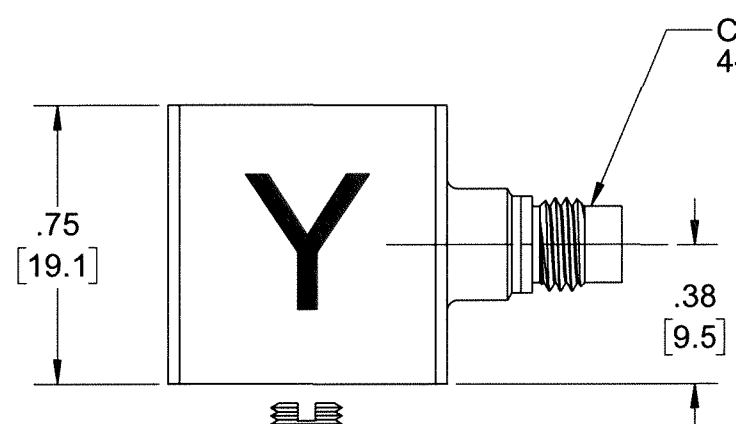
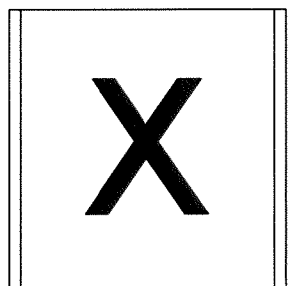
REVISIONS

| REV. | ECN   | DESCRIPTION                      | BY/DATE        | CHK | APPR |
|------|-------|----------------------------------|----------------|-----|------|
| A    | 12279 | INITIAL RELEASE. SAME AS REV X2. | KG<br>04/16/18 | LW  | AS   |

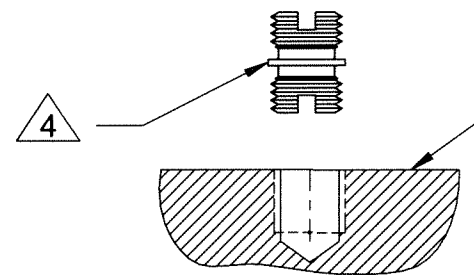
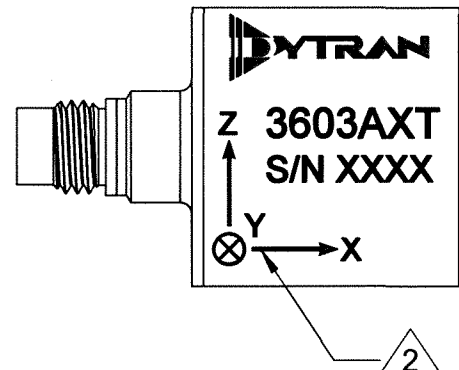
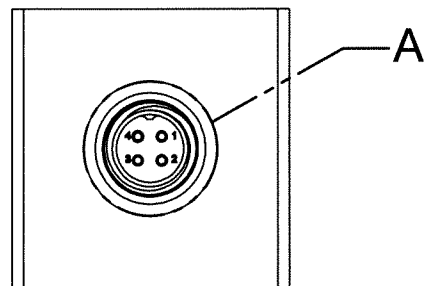
| MODEL   | SENSITIVITY |
|---------|-------------|
| 3603A1T | 1 mV/g      |
| 3603A2T | 5 mV/g      |
| 3603A3T | 10 mV/g     |



DETAIL A  
SCALE 4:1



CONNECTOR,  
4-PIN, 1/4-28 UNF-2A



**MOUNTING RECOMMENDATION:**  
 PREPARE A .80 [20.3] X .80 [20.3] MIN SURFACE,  
 FLAT TO .001 TIR.  
 TAP 10-32 UNF-2B  $\nabla$  .15 [3.8] MIN.  
 MOUNTING TORQUE: 10-12 Lb-in.

- 4 MOUNTING STUD MODEL 6200 (SUPPLIED)
- 3. HOUSING/CONNECTOR MATERIAL: TITANIUM ALLOY
- 2 ARROWS INDICATE DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.
- 1. WEIGHT: 30 GRAMS, MAX

NOTES: UNLESS OTHERWISE SPECIFIED

|  |                                  |   |  |
|--|----------------------------------|---|--|
| UNLESS OTHERWISE SPECIFIED:<br>INTERPRET DIM & TOL PER<br>ASME Y14.5M - 1994.<br>REMOVE BURRS.<br>COUNTERSINK INTERNAL THDS<br>90° TO MAJOR DIA.<br>CHAM EXT THDS 45° TO MINOR DIA.<br>THD LENGTHS AND DEPTHS ARE FOR<br>MIN FULL THDS.<br>DIMENSIONS APPLY AFTER FINISHING. |                                  | UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>DIMENSIONS IN BRACKETS [ ] ARE IN<br>MILLIMETERS TOLERANCES ARE: |  |
| DECIMALS<br>.XX ±.03<br>.XXX ±.010   | METRIC<br>.X ± 0.8<br>.XX ± 0.25 | ANGLES<br>±1°   |  |
| APPROVALS  |                                  | DATE  |  |
| ORIG   | LN                               | 08/18/15  |  |
| CHK  | LW                               | 4/19/18   |  |
| APP  | AS                               | 4/20/18   |  |
| DO NOT SCALE DRAWING   |                                  | THIRD ANGLE PROJECTION<br>USA   |  |

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 DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DWG,  
MECHANICALLY FILTERED TRIAXIAL  
ACCEL, 3603AXT SERIES**

|                  |                           |                              |                 |
|------------------|---------------------------|------------------------------|-----------------|
| SIZE<br><b>B</b> | CAGE CODE<br><b>2W033</b> | DWG NO<br><b>127-3603A1T</b> | REV<br><b>A</b> |
|------------------|---------------------------|------------------------------|-----------------|

SCALE: 2:1 SHEET 1 OF 1



- MECHANICALLY & ELECTRICALLY FILTERED
- HERMETICALLY SEALED
- GROUND ISOLATED
- TEDS FUNCTION
- EXCELLENT LINEARITY

**PHYSICAL**

Weight, Max. Tapped hole  
 Mounting Provision Connector [1] Type  
 Housing Material  
 Sensing Element Material  
 Element Style Isolation

| ENGLISH        |    | SI             |       |
|----------------|----|----------------|-------|
| 1.05           | oz | 30             | grams |
| 10-32 UNF-2B   |    | 10-32 UNF-2B   |       |
| 4-pin          |    | 4-pin          |       |
| Titanium       |    | Titanium       |       |
| Titanium       |    | Titanium       |       |
| Case Isolated  |    | Case Isolated  |       |
| Single Crystal |    | Single Crystal |       |
| Planar Shear   |    | Planar Shear   |       |

**PERFORMANCE**

Sensitivity, ±10% [2]  
 Range for ± 5 Volts Output  
 Frequency Response, ±3dB  
 Resonant Frequency  
 Broad Band Resolution  
 Linearity [3]  
 Maximum Transverse Sensitivity  
 Strain Sensitivity @ 250µε

|             |        |             |                      |
|-------------|--------|-------------|----------------------|
| 1.0         | mV/g   | 0.10        | mV/m/s <sup>2</sup>  |
| ± 5,000     | g peak | ± 49050     | m/s <sup>2</sup>     |
| 0.3 to 5000 | Hz     | 0.3 to 5000 | Hz                   |
| > 25        | kHz    | > 25        | kHz                  |
| 0.07        | g rms  | 0.69        | m/s <sup>2</sup> rms |
| ± 1         | % F.S. | ± 1         | % F.S.               |
| 6           | %      | 6           | %                    |
| 0.002       | g/µε   | 0.02        | m/s <sup>2</sup> /µε |

**ENVIRONMENTAL**

Maximum Vibration  
 Maximum Shock  
 Operating Temperature Range  
 Seal

|            |        |            |                       |
|------------|--------|------------|-----------------------|
| 100        | g peak | 981        | m/s <sup>2</sup> peak |
| 200        | g peak | 1962       | m/s <sup>2</sup> peak |
| -60 to 250 | °F     | -51 to 121 | °C                    |
| Hermetic   |        | Hermetic   |                       |

**ELECTRICAL**

Supply Current Range [4]  
 Compliance Voltage Range  
 Output Impedance, Typ  
 Bias Voltage  
 Discharge Time Constant  
 Electrical Isolation  
 TEDS Feature [5]

|               |         |               |         |
|---------------|---------|---------------|---------|
| 2 to 20       | mA      | 2 to 20       | mA      |
| +18 to +30    | Volts   | +18 to +30    | Volts   |
| 100           | Ω       | 100           | Ω       |
| +7.0 to +11.5 | VDC     | +7.0 to +11.5 | VDC     |
| 0.5 to 2.0    | Sec     | 0.5 to 2.0    | Sec     |
| 10            | GΩ, min | 10            | GΩ, min |
| IEEE 1451.4   |         | IEEE 1451.4   |         |

**This family also includes:**

| Model   | Sensitivity (mV/g) | Freq Response (Hz), ±3dB | Time Constant (Sec) | Operating Temp (°F) |
|---------|--------------------|--------------------------|---------------------|---------------------|
| 3603A2T | 5                  | 0.3 to 5000              | 0.5 to 2.0          | -60 to 250          |
| 3603A3T | 10                 | 0.3 to 5000              | 0.5 to 2.0          | -60 to 250          |

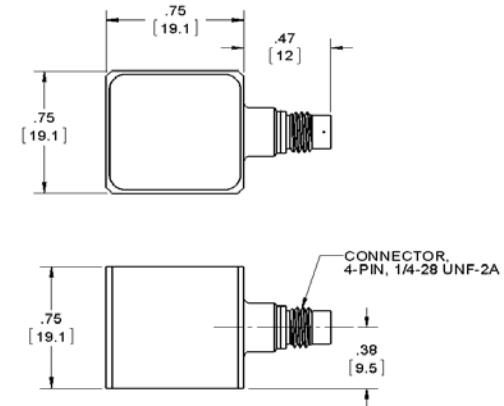
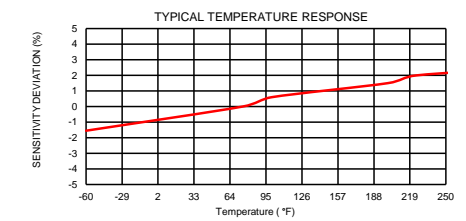
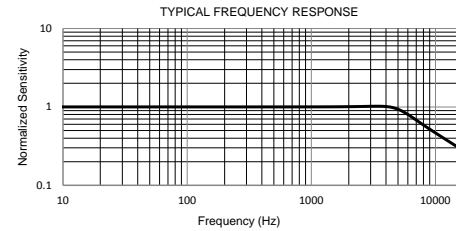
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting stud model 6200, (10-32 to 10-32).

**Notes:**

- [1] Glass to metal seal connector. Mates with Dytran cable Model 6811AXX (XX=length in feet).
- [2] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the amplifier.
- [5] TEDS operational temperature: -40° F to +185° F [-40° C to +85° C]
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3603A1T for more information.

