MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE (XX=LENGTH IN FEET)

5. OPERATIONAL TEMPERATURE: RANGE -60° TO +250°F

4. SENSITIVITY: 10mV/G NOM.

3. WEIGHT: 3 GRAMS NOM

2. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT

1. MATERIAL: TITANIUM ALLOY

NOTES: UNLESS OTHERWISE SPECIFIED.

MATERIAL

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS. TOLERANCES ARE:

- INCHES: ±0.005
- MILLIMETERS: ±0.01

FINISH

BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADIUS .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.

CONTRACT NO.

MATERIAL APPROVALS

DATE

TOTAL RUNOUT WITHIN .005.

THD LENGTHS AND DEPTHS APPLY AFTER FINISHING.
ALL MACHINED SURFACES.

DIMENSIONS APPLY AFTER FINISHING.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS. TOLERANCES ARE:

- INCHES: ±0.005
- MILLIMETERS: ±0.01

NOTES: UNLESS OTHERWISE SPECIFIED.

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.

ALL MACHINED SURFACES.

TOTAL RUNOUT WITHIN .005.

BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADIUS .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.
Model Number: 3023A

**MINATURE SIZE**
**EXCELLENT LINEARITY**
**ULTRA LOW WEIGHT**

### PHYSICAL
- **Weight, Max.**
  - ENGLISH: 0.11 oz
  - SI: 3.0 grams
- **Connector**
  - 4-PIN
- **Mounting Provision**
  - Adhesive Mount
- **Material, Housing/Connector**
  - Titanium Alloy
- **Sensing Element**
  - Quartz
- **Element Style**
  - Shear

### PERFORMANCE
- **Sensitivity, -10 / +15 % [1]**
  - 10 mV/g
- **Frequency Response [5]**
  - 1.5 to 10000 Hz
- **Resonant Frequency [3]**
  - > 40 kHz
- **Spectral Noise [6]**
  - 0.00004 mG/Hz
- **Linearity [2]**
  - 1 % F.S.
- **Maximum Transverse Sensitivity**
  - 6 %
- **Strain Sensitivity @ 250µε**
  - 0.039 g/µε
- **Signal Polarity [5]**
  - 6 %

### ENVIRONMENTAL
- **Maximum Vibration**
  - ±600 Gpeak
- **Maximum Shock**
  - 5000 Gpeak
- **Temperature Range**
  - -60 to +250 °F
- **Seal**
  - Hermetic
- **Magnetic Sensitivity at 100 Gauss**
  - 0.00005 g/Gauss

### ELECTRICAL
- **Supply Current Range [3]**
  - 2 to 20 mA
- **Compliance Voltage Range**
  - 18 to 30 Volts
- **Output Impedance, Typ**
  - 100Ω
- **Bias Voltage**
  - 7 to 11 VDC
- **Discharge Time Constant**
  - 0.3 to 1.5 Sec
- **Electrical Isolation**
  - Case Grounded

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**Supplied Accessories:**
1. Accredited calibration certificate (ISO 17025)

**Notes:**
[1] Measured at 100kHz, 1 Grms per ISA RP 37.2.
[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
[4] In the interest of constant product improvement, we reserve the right to change specifications without notice.

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Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023A for more information.