





MODEL 4020 & 4030 ACCELEROMETER

SPECIFICATIONS

- DC Response, Silicon MEMS
- Dual & Triaxial Output Options
- **◆** Low Cost, Great Value
- ±2g & ±6g Measurement Range
- Rugged Construction

The Model 4020 & 4030 are low noise, signal conditioned DC accelerometers packaged in a durable molded housing. The accelerometers are offered in ±2g & ±6g ranges with a nominal 0-200Hz bandwidth. The model 4020 is a dual axis configuration (X&Y axes) while model 4030 is a triaxial configuration. The capacitive silicon MEMS sensing element offers high resolution and long term stability for critical measurement applications.

FEATURES

- ◆ 5-30Vdc Excitation Voltage
- Environmentally Sealed
- Low Pass Filtered Output
- Capacitive Silicon MEMS Element
- Integral #24 AWG Cable
- Self-Test Enabled

APPLICATIONS

- Low Frequency Vibration Monitoring
- Tilt & Inclination Measurement
- Motion Measurements
- Structural Monitoring
- Laboratory Testing

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 10Vdc excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

Parameters DYNAMIC			Notes
Range (g) Sensitivity (mV/g) Frequency Response (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±2 1000 0-200 ±1 <3 2000	±6 333 0-200 ±1 <3 2000	±10% ±5%
Residual Noise (μV RMS) Residual Noise (μg/√Hz RMS) Self Test Output Change (mV)	600 42 X = +210 ±90 Y = -210 ±90 Z = -340 ±190	240 51 X = +70 ±30 Y = -70 ±30 Z = -110 ±65	Passband Ground ST Lead
ELECTRICAL Zero Acceleration Output (V) Excitation Voltage (Vdc) Excitation Current (mA) Full Scale Output Voltage (Vdc) Ground Isolation	2.5 ±0.1 5 to 30 4 ±2 Isolated from Mo	unting Surface	
ENVIRONMENTAL Thermal Zero Shift (%FSO)	±4		-40° to +85°C

Thermal Zero Shift (%FSO) ± 4 -40° to $+85^\circ$ C Thermal Sensitivity Shift (%) ± 5 -40° to $+85^\circ$ C Operating Temperature (°C) -40 to 85

Humidity Epoxy Sealed, IP65

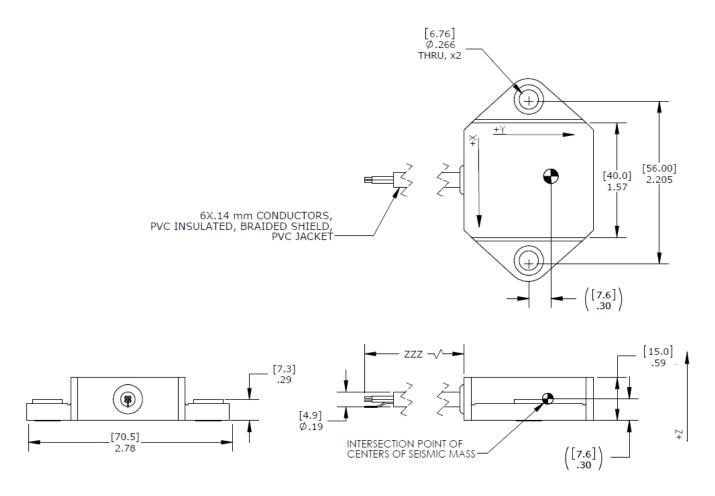
PHYSICAL

Housing Material Nylon 6-6, 30% GF Molded Housing

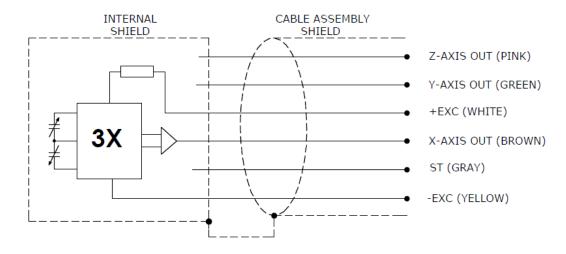
Weight (grams) 50 (cable not included)
Mounting 2x 1/4 or M6 Screws
Mounting Torque 18 lb-in (2.0 N-m)

Optional accessories: 121 3-Channel Precision Low Noise DC Amplifier

DIMENSIONS



SCHEMATIC



ORDERING INFORMATION

4020 (biaxial) or 4030 (triaxial)

Series Type

Range
002=2g
006=6g

Cable length
120=120 inches
240=240 inches
360=360 inches

197=197 inches, 5 meters
394-394 inches, 10 meters

Example; 4030-002-120

Model 4030 (triaxial), 2g range, 120inch (10ft) cable length

Example; 4020-002-120

Model 4020 (biaxial), 2g range, 120inch (10ft) cable length

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