Model 4020 & 4030 Accelerometer



[56.01]

[15.2]

5

[39.9] 1.57

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

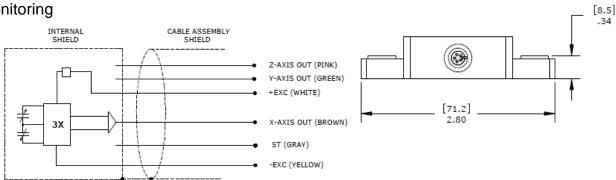
The Model 4020 & 4030 are low noise, signal conditioned DC accelerometers packaged in a durable molded housing. The accelerometers are offered in ±2g & ±6g ranges with a nominal 0-200Hz bandwidth. The model 4020 is a dual axis configuration while model 4030 is a triaxial configuration. The capacitive 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
- Temperature Compensated

APPLICATIONS

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



6 X .14 mm CONDØCTORS, PVC INSULATED, BRAIDED SHIELD

PVC 1ACKE



[4.9]

Ø.19





dimensions

+Y

+

[6.76]

Ø.266 THRU, 2X



performance specifications

All values are typical at +24°C, 10Hz and 5Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

| Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (mV RMS) | ±2 100 0-2 ±1 <3 200 1.2 | 00 200 00 | ±6 333 0-200 ±1 <3 2000 1.2 | Notes ±10% ±5% Passband |
|---|--|-------------------------------|---|----------------------------------|
| ELECTRICAL Zero Acceleration Output (V) Excitation Voltage (Vdc) Excitation Current (mA) Full Scale Output Voltage (Vc Self Test Output Change (mg Ground Isolation | 5 tr 5 dc) ±2) X = | = 200 ±100, ` | Y = -200 ±100, Z = 350 ±200 Iounting Surface | Ground ST Lead |
| ENVIRONMENTAL Thermal Zero Shift (%FSO) Thermal Sensitivity Shift (%) Operating Temperature (°C) Humidity | | | IP65 | -40° to +85°C -40° to +85°C |
| PHYSICAL Case Material Weight (grams) Mounting Mounting Torque | 44 2x 18 | 1/4 or M6 So lb-in (2.0 N- | crews m) | |
| Calibration supplied: Optional accessories: | CS-LFREQ-0010 121 | | eable Amplitude Calibration from 1Hz to 30Hz | |

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ordering info

| PART NUMBERING Model Number+Range+Cable Length | 北京赛斯维测控技术有限公司 北京市朝阳区望京西路48号 | |
|---|--|--|
| 40XX-GGG-CCC I I ICable Length (120 is 120 inches) I IRange (002 is ±2g) IDual or Triaxial Configuration (4020; Dual Axis, 4030; Triaxial) | 金隅国际C座1002 电话: +86 010 8477 5646 传真: +86 010 5894 9029 邮箱: sales@sensorway.cn | |
| Example: 4030-002-120 Model 4030 (triaxial), ±2g range, 120 inch cable length | http://www.sensorway.cn | |