QFA-125-30-LC Series High Temperature, Low Input Current Quartz Flexure Accelerometer



Making Sense out of Motion...

The Jewell Instruments
QFA-125-30-LC Series Accelerometer
contains state of the art quartz
flexure technology that provides
high accuracy, repeatability
and stability in extremely
high temperature environments
with a low current input.

Features & Benefits

- High Temperature
- · Excellent Repeatability
- High Accuracy
- Environmentally Rugged
- High Stability
- Square or Round Mounting Flanges
- Small Compact Design
- Built-in Self Test System
- Low current

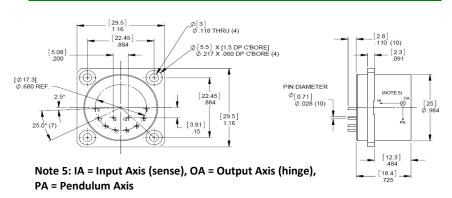
Applications

- Well borehole logging (Wireline)
- Measure While Drilling (MWD)
- · Oil Drilling
- Orientation Systems for Drilling Applications
- Borehole Mapping

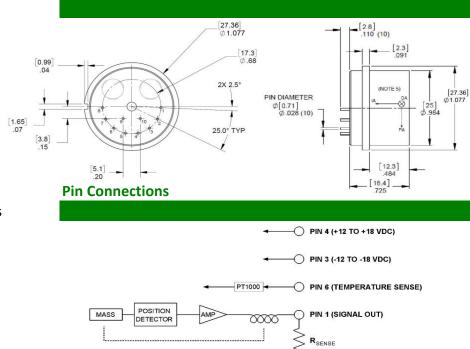




Square Flange - Outline Drawing



Circle Flange - Outline Drawing



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PIN 8 (SIGNAL & POWER RETURN)

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Performance Specifications

Performance

Bias Temp. Sens, μg/°C, Max.	±100	
Scale Factor Stability (1 month composite)	less than 250 ppm	
Bias Stability (1 month composite)	less than 250 ug	
Noise, mgrms, Max. (OHz to 10kHz) (Max.)	3	
Weight (grams)	55	

Electrical

Input Voltage, Vdc	±12 to ±18
Input Current, mA	+/-13mA max @ +/-18Vdc input
	+/- 10mA nominal @ +/-15Vdc input
	+/- 8mA nominal @ +/-12Vdc input
Output Impedance, ohms	External Load Resistor Dependent

Environmental

Operational Temp Range, °C	-55°C to +125°C
Vibration, (Sine)	25 Hz to 500 Hz, 25g
Vibration, (Random) Rectification, ug/g²rms	50 Hz to 500 Hz, 100 ug/g ² rms
Shock, g (0.5 msec, 1/2 sine)	1000

- Note 1: Specifications apply and are characterized up to ±1g range. The accelerometer is capable of supplying acceleration information up to ±30g but at reduced accuracy.
- Note 2: Voltage output via customer supplied load resistor.
- Note 3: Scale factor shown in mA/g as a standard. If you require scale factor in volts/g, please specify voltage range when ordering *Specifications subject to change without notice on account of continued product development

How to Order

Model # Part # QFA-125-30G-SQ-LC 848 205-002 QFA-125-30G-RD-LC 848 206-002	Accelerometers exported from the United States must be done in accordance with the Export Administration Regulations (EAR) and/or the International Traffic in Arms Regulations (ITAR) as applicable.
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