

## Q-FA<sup>®</sup> QA-1000 Accelerometer

*The Ruggedized product*



### Description

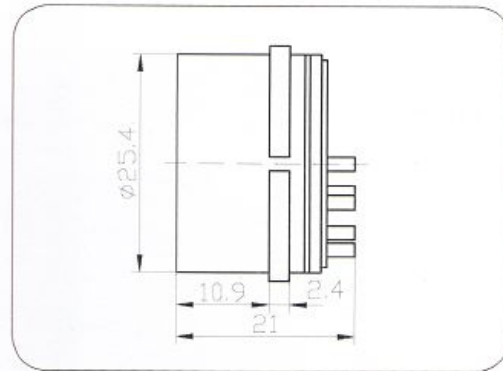
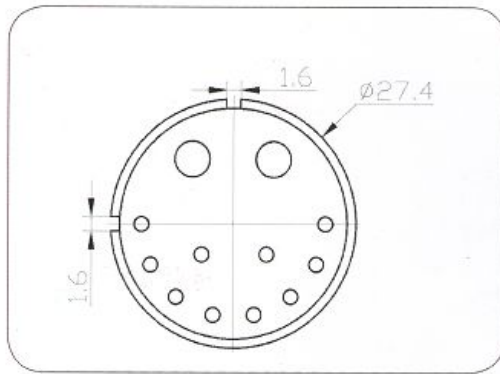
Idealphotonics's family of ruggedized Q-FA<sup>®</sup> accelerometers are designed and built to tolerate demanding measurement-while-drilling (MWD) and wireline environments while providing precision accuracy. Years of downhole experience and an extensive test regime insure that our sensors exhibit superior reliability.

Two models are available with different temperature ranges, allowing the customer flexibility in selecting the appropriate sensor.

### Features

- High temperature capability
- Environmentally rugged
- Analog output
- Square or round mounting flange options
- Field-adjustable range
- Internal temperature sensor for thermal compensation
- Low power electronics
- Built-in test

### Configuration Drawings



## Performance Characteristics

Performance	QA1000
Input Range [g]	>10
Bias [mg]	<20
Bias repeatability (uq)	<100
Temperature Sensitivity [ $\mu\text{g}/^\circ\text{C}$ ]	<100
Scale Factor [mA/g]	$2 \pm 0.7$
Six month Composite Repeatability [ppm]	<100
Temperature Sensitivity [ppm/ $^\circ\text{C}$ ]	<100
Environment	QA1000
Operating Temperature Range [ $^\circ\text{C}$ ]	-25 to +125
Vibration [g]	20g(20-2000HZ)
Half- sine shock	1000,0.5ms
Physical	QA1000
Weight [grams]	600g
Case Material	300 Series Stainless Steel

Find out more:

Fiber optic gyroscope solution

[www.idealphotonics.com](http://www.idealphotonics.com)

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