

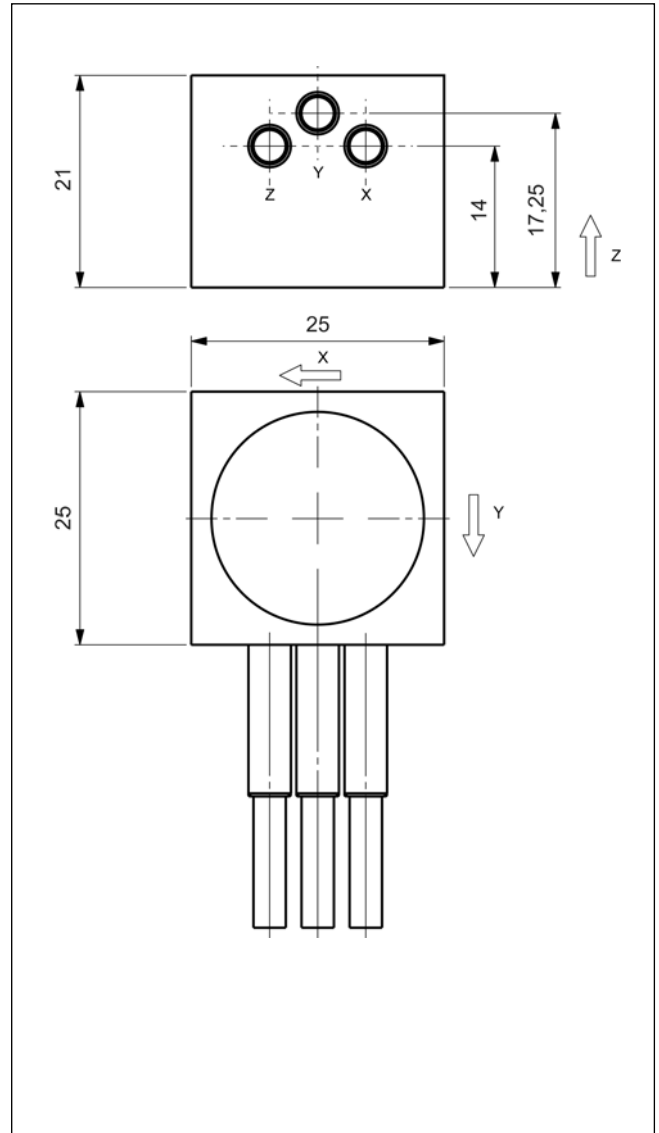
- Full Scale Range ± 50 g to ± 500 g
- Range Selectable for Each Axis
- Bandwidth from DC
- Built-in Critical Air Damping
- Integrated Over-range Stops

The FA3650 is a general purpose accelerometer. It is designed for triaxial testing with a different operating range for each direction. As opposed to oil damped accelerometers, the performance of the air damped FA3650 is much less affected by temperature variations, thus providing more accurate measurement. Packaged in a rugged metal case, this accelerometer is designed for easy mounting and maintenance.

With many years of experience as a designer and manufacturer of sensors, FGP Sensors often works with customers to design or customize sensors for specific uses and testing environments.

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To meet your needs we also offer complete turnkey systems. The matched components (sensor, power, amplifier and digital display) are formatted, calibrated and ready for immediate use.



Characteristics

Measurement Range (g)	± 50	± 100	± 200	± 500
Over-range (g)	1000	2000	2000	2000
Frequency Response $\pm 5\%$ (Hz)	0-750	0-1000	0-1200	0-1250

Technical Specifications

Range (F. S.)

From ± 50 to ± 500 g (see table on reverse side)

Over-range

From 1000 to 2000 (see table on reverse side)

Accuracy

Non-Linearity : $<\pm 2\%$ F.S.
Transverse Sensitivity : $<3\%$ F.S.

Temperature Range

Operating Temperature Range (OTR) : -20 to 80 °C [-4 to 176 °F]
Compensated Temperature Range (CTR) : 0 to 60 °C [32 to 140 °F]
Zero Shift in CTR : $<2\%$ F.S. / 60 °C [108 °F]
Sensitivity Shift in CTR : $<2\%$ of reading / 60 °C [108 °F]

Electrical Characteristics

Supply Voltage	10 Vdc
F.S. Output	± 40 to ± 100 mV
Zero Offset	$<\pm 10$ mV
Input Impedance	10 k Ω
Output Impedance	<5 k Ω
Insulation under 50Vdc	≥ 100 M Ω

Electrical Termination

Shielded cable standard length 2 m [6.5 ft] with strain relief spring

Mechanical Characteristics

Housing Material : Aluminium alloy
Weight w/o cable : <35 grams

Product References

Low Level Output Sensor

Model

Full Scale Range (F.S.)

X/Y/Z In g

Option(s)

L : Linearity $\leq \pm 1\%$ F.S.
Z1 : Zero shift $\leq \pm 1\%$ F.S. / 108 °F
ET1 : CTR -20 to 100 °C [-4 to 212 °F] OTR=CTR
ET2 : CTR -40 to 120 °C [-40 to 248 °F] OTR=CTR
LC"X" : Additional cable length in ft

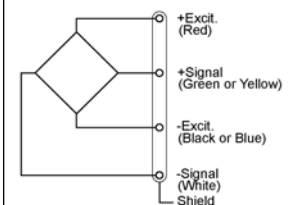
FA3650

$\pm 50/\pm 100/\pm 100$

ET1

"X" = Custom value

Wiring Schematic / axis



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