

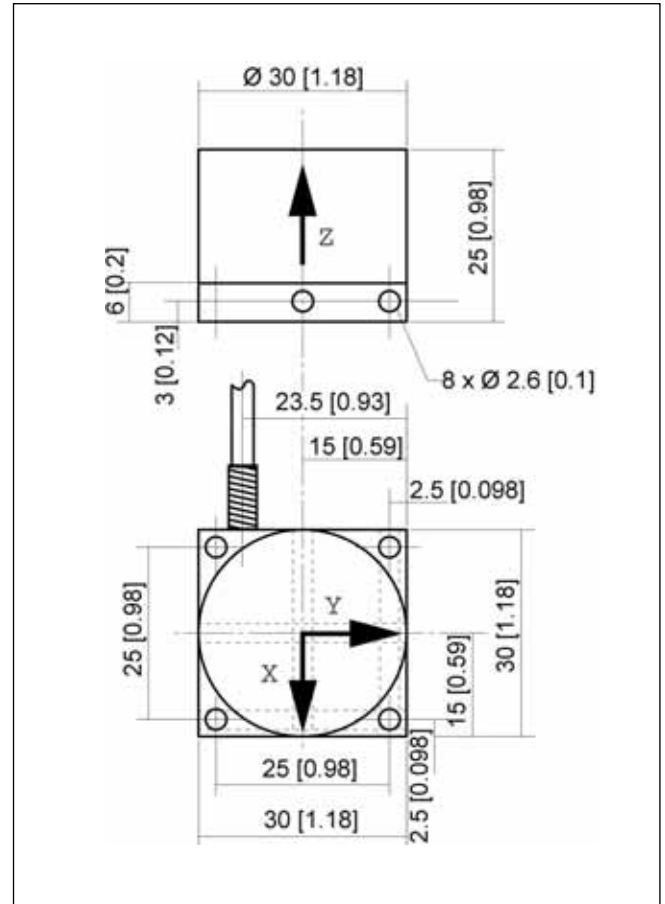


- Full Scale Range ± 2 g to ± 500 g
- Triaxial Measurements
- DC Response
- Integrated Over-range Stops
- Solid State Reliability
- High Level Output Model with Integrated Amplifier

The FA3106 is a general purpose accelerometer. It allows triaxial measuring with a different frequency range for each direction. Placed in a rugged metal housing, the FA3106 accelerometers are designed for easy mechanical mounting. They are also available with built-in A1/A2 module, providing internal signal conditioning.

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.

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.



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Characteristics

Measurement Range (g)	± 2	± 5	± 10	± 20	± 50	± 100	± 200	± 500
Over-range (g)	400	400	400	400	1000	2000	2000	2000
Frequency Response $\pm 5\%$ (Hz) FA3106/FA3106-24/FA3106-A2	0-200	0-250	0-300	0-500	0-750	0-1000	0-1200	0-1250
Frequency Response $\pm 5\%$ (Hz) FA3106-A1	0-100	0-150	0-250	0-400	0-700	0-700	0-700	0-700

Technical Specifications

Range (F. S.)

From ± 2 g to ± 500 g (see table on reverse side)

Over-range

From 400 to 2000 g (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. / 108 °F
 Sensitivity Shift in CTR : $< 2\%$ of reading / 108 °F

Electrical Characteristics

Reference	FA3106	FA3106-24	FA3106-A1	FA3106-A2
Supply Voltage	10 Vdc	14 to 36 Vdc	10 to 30 Vdc	± 15 Vdc
F.S. Output	± 20 to ± 100 mV	± 20 to ± 100 mV	± 2 V (± 250 mV)	± 5 V $\pm 5\%$ F.S.
Zero Offset	$< \pm 10$ mV	$< \pm 10$ mV	2.5 V (± 250 mV)	0 V $\pm 5\%$ F.S.
Input Impedance/Consumption	10 k Ω	10 k Ω	< 30 mA	-
Output Impedance	< 5 k Ω	< 5 k Ω	< 90 Ω	-
Insulation under 50 Vdc	≥ 100 M Ω	≥ 100 M Ω	≥ 100 M Ω	≥ 100 M Ω

Electrical Termination

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

Mechanical Characteristics

Housing Material : Anodized aluminium
 Weight w/o cable : < 30 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.
 ZI : 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
 12W"X" : Additional cable length in ft

FA3106
FA3106-24

$\pm 10/\pm 20/\pm 50$

ET1

High Level Output Sensor

Model

Power Supply Reference

A1 : Unipolar-tension
 A2 : Bipolar-tension

Full Scale Range (F.S.)

X/Y/Z In g

Option(s)

L : Linearity $\leq \pm 1\%$ F.S.
 ZI : Zero shift $\leq \pm 1\%$ F.S. / 108 °F
 ET1 : CTR -20 to 100 °C [-4 to 212 °F] OTR=CTR
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FA3106

A1

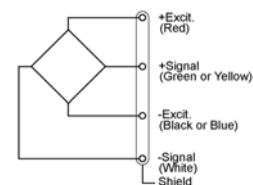
$\pm 10/\pm 20/\pm 50$

ET1

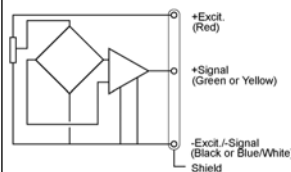
"X" = Custom value

Wiring Schematic

FA3106/FA3106-24



FA3106-A1



FA3106-A2

