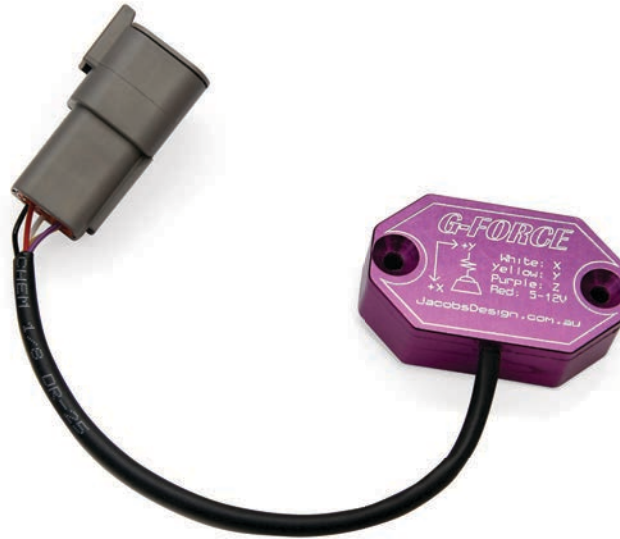




TRIPLE AXIS - 3G SENSOR



Designed specifically for motorsport applications, this ruggedised sensor measures the G-Forces experienced in competitive performance.

It is a 3-axis sensor (X, Y and Z) with each axis being perpendicular to the other two axes. It will measure both positive and negative Gs in each of the 3 axes.

► FEATURES

- 3 axis G-Force measurements
- Flexible connector options
- Various bandwidth options - from 1 Hz to 500 Hz
- Analogue outputs integrate easily with data acquisition systems
- Cost effective, compact and low weight

► SPECIFICATIONS

General Specifications

Parameter	Min	Typical	Max	Units
Measurement Range	-3	-	+3	g
Zero g Voltage	1.3	1.65	2	V
Sensor Output Voltage	0	-	3.3	V
Sensitivity	290	330	370	mV/g

Parameter	Min	Typical	Max	Units
Stability	-	+/-0.015	-	% per degree C
Temperature Range	-20	-	70	degrees C
Nonlinearity	-	+/-0.3	-	%
Inter-Axis Aignment Errors	-	+/-0.1	-	%
Cross-Axis Sensitivity	-	+/-1	-	%
Supply Voltage		5		V sensor supply
Supply Current	-	1	-	mA

Dimensions: 52 x 32 x 15 mm

Weight: <55 grams (inc. pigtail loom)

Enclosure material: CNC Machined Anodised Aluminium 6016-T6

Heatshrink: Raychem DR-25

Connector Wire: Mil-W-22759/16

► COMPATIBILITY

MoTeC ECUs: M1, M880, M800, M600, M400, M84

MoTeC Displays/Loggers: All current 5", 7", 12" Colour Displays/Loggers, Enclosed Loggers, ADL3, SDL3, CDL3

► WIRING

The sensor is supplied with a pigtail loom and power is supplied via 5 volts.

The G-Force outputs from the sensor are analogue voltage levels that may be fed directly into the 5 Volt analogue input of a data acquisition system. If excessive electrical noise is present, a shielded loom may be required.

Wire Colour	Function
Red	Supply Voltage (5 V)
Black	0 V/ Chassis
White	X-Axis Analogue Output (0 V to 3.3 V)
Yellow	Y-Axis Analogue Output (0 V to 3.3 V)
Purple	Z-Axis Analogue Output (0 V to 3.3 V)

► DIMENSIONS AND MOUNTING

Measurements in mm.

