



## motionSENSOR BG2166L Low Cost Acceleration Sensor ±2g

- Voltage Output
- single Axis
- ±2g



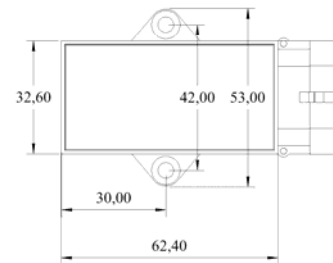
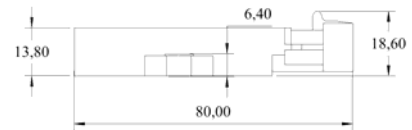
Physical Parameters	min	max
Range	±2g	
Sensitivity	1000mV/g	
Resolution	2mg	
Transverse Sensitivity		5%
Hysteresis		0g
Non-Linearity		±2%
Zero Offset		±2%
Frequency Limit (-3dB)	100Hz	

Electrical Parameters		
Excitation Voltage	4.5VDC	5.5VDC
Quiescent Current		5mA
Zero Signal	2.5V	
Output Voltage	0.5V	4.5V

Enviromental		
Operating Temperature Range	-40°C (-40°F)	+85°C (+185°F)
Shock	1000g	
Case Material	Grivory GV-5H black	
Seal	IP67	
Plug	AMP Superseal 1.5	

All Specifications at +25°C (+77°F) and 5V<sub>DC</sub>, unless other defined.

We reserve to make technical alterations without prior notice.



### Designation and Ordering Information

BG2166L

### Output:

$$\alpha = (U_{OUT} - 2.5V) / 1V$$

### Options

Cable Set 3-pin [ ] [ ]  
 \_\_\_\_\_ unshielded [ ] / [shielded]  
 \_\_\_\_\_ [1m] / [4m] / [10m] / [20m]

Assembling Set

### Case is resistant against

- Fuels
  - Oils
  - Seawater
  - a lot of Chemicals
- (see AppNote 62/02)

Pin	Connection	Cable Set Color / Number
	one axis	one axis
1	n.c.	n.c.
2	X	green / 2
3	GND	brown / 3
4	Power	white / 4

