



motionSENSOR BG2180

Acceleration Sensor $\pm 2g$ / $\pm 15g$ CANopen



- Output CANopen
- 3 Axes
- $\pm 2g$ / $\pm 15g$

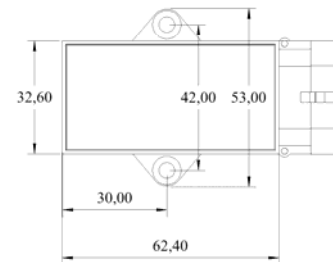
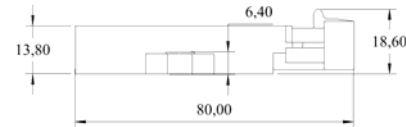
Physical Parameters	min	max
Axes	3	
Range	$\pm 2g$	$\pm 15g$
Sensitivity	1 LBS / 3.9g	
Resolution	3.9mg	
Transverse Sensitivity		2%
Hysteresys		0g
Inter Axis Alignment Error		0.1%
Non-Linearity		1%
Frequency Limit (-3dB)	100Hz	
Temperature Coefficient		0.01%/K

Electrical Parameters		
Excitation Voltage	10,8VDC	30VDC
Quiescent Current		15mA
Output	CANopen (acc. CiA DS-301 Norm)	
Output [Current]	4mA	20mA

Enviromental		
Operating Temperature Range	-40°C (-40°F)	+85°C (+185°F)
Shock	2000g	
Case Material	Grivory GV-5H black	
Seal	IP67	
Plug	AMP Superseal 1.5	

All Specifications at +25°C (+77°F), unless other defined.

We reserve to make technical alterations without prior notice.



Designation and Ordering Information

BG2180 []
 _____ [$\pm 2g$] / [$\pm 15g$]

Output:

$$\alpha = (\text{MSB} \ \& \ \text{LSB}) * 3.9\text{mg}$$

See also Guide and .EDS file for additional functions.

Options

Cable Set [4-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
1	CAN high	yellow / 1
2	CAN low	green / 2
3	GND	brown / 3
4	Power	white / 4

