



# IB-6

## 6-axis inertial box with analog output

### AC-GAS-2 Axis XY 2 axis gas accelerometer

Range	$\pm 3$ or $\pm 5G$
Accuracy	$\pm 2\%$ FS
Sensitivity	666 to 400 $\pm 2\%$ mV/G
Bandwidth 3dB	DC to 20 $\pm 15\%$ Hz
Signal at 0G	2.5 $\pm 0.05$ V
Offset Drift	$\pm 20$ mV
Gain Drift	$\pm 1.5\%$
Cross axis sensitivity	4%

### AC-CAP-1 Axis Z 1 axis capacitive accelerometer

Range	$\pm 5G, \pm 10G, \pm 15G$ or $\pm 20G$
Accuracy	$\pm 1.5\%$ FS
Sensitivity	400 to 100 $\pm 8\%$ mV/G
Bandwidth 6dB	DC to 100 Hz
Signal at 0G	2.5 $\pm 0.05$ V
Offset Drift	$\pm 20$ mV
Gain Drift	$\pm 1\%$
Cross axis sensitivity	2.5%

### GYRN-1 Axis 1 axis gyroscope (3 times single axis)

Range	$\pm 100$ or $\pm 150^\circ/s$
Accuracy	$\pm 2\%$ FS
Sensitivity	20 or 13.3 mV/G
Cut off frequency	50 Hz
Signal at 0°/sec	2.5 $\pm 0.1$ V
Offset Drift	$\pm 25$ mV
Gain Drift	$\pm 1\%$

## IB-6 specifications

Supply voltage	5 to 16 V
Supply current	28 mA
Output voltage	0 – 5 V
Output impedance	47 $\Omega$
Dimension	36 x 26.5 x 25.5 mm
Material	Aluminium
Weight	TBD g
Vibration test	20 Gpp 5'
Shock	500 G
Operating temp	-20 to +85°C
Storage temp	-20 to +125°C

## Pinout

Connector : ASDD-0-08-11-P-N

Function	Pin
Supply Acc	1
0V Acc	2
Signal X Acc	3
Signal Y Acc	4
Signal Z Acc	5
Supply Gyro	6
0V Gyro	7
Signal X Gyro	8
Signal Y Gyro	9
Signal Z Gyro	10
Not connected	11

Ordering ref ex: IB6-XY5-Z15-GX150-GY50-GZ150  
IB6-XYRange-ZRange-GXRange-GYRange-GZRange

	Range			
Acc XY	$\pm 3g$	$\pm 5g$		
Acc Z	$\pm 5g$	$\pm 10g$	$\pm 15g$	$\pm 20g$
Gyro XYZ	$\pm 50^\circ/s$	$\pm 100^\circ/s$	$\pm 150^\circ/s$	

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