

IB4

3 AXIS Accelerometer and 1 AXIS Gyroscope

Ref: IB4-XY#-Z#-G###

SN: B#####

Acc gas Soft. Version: v#.##

Texys sensors are designed for data recording. If the user wants to include this sensor in a close loop system or active control, he must assume all responsibility.

Accelerometer gas		
X-Y Range	$\pm 3, \pm 5$	G
X-Y Accuracy	± 2	%FS
X-Y Sensitivity	666 to 400 $\pm 2\%$	mV/G
X-Y Bandwidth at -3dB	DC to 20 $\pm 15\%$	Hz
X-Y signal at 0G	2.5 ± 0.05	V
Offset Drift (20 to 80°C)	± 20	mV
Gain Drift (20 to 80°C)	$\pm 1,5$	%
Cross axis sensitivity	4	%
Accelerometer capacitive		
Z Range	$\pm 5, \pm 10, \pm 15, \pm 20$	G
Z Accuracy	± 1.5	%FS
Z Sensitivity	400 to 100 $\pm 8\%$	mV/G
Z Bandwidth 6dB (std)	DC to 100	Hz
Z signal at 0G	2.5 ± 0.05	V
Offset Drift (20 to 80°C)	± 20	mV
Gain Drift (20 to 80°C)	± 1	%
Cross axis sensitivity	2,5	%
Gyroscope		
Range	$\pm 100, \pm 150$	°/s
Accuracy	± 2	%FS
Sensitivity	20, 13.3	mV/°/s
Cut off frequency 1st order	50	Hz
Signal at 0°/sec	2.5 ± 0.1	V
Offset drift (20 to 80°C)	± 25	mV
Gain Drift (20 to 80°C)	± 1	%
Electrical features		
Supply Voltage	6 to 16	V
Supply Current	18	mA
Output Voltage	0-5	V
Output Impedance	47	Ω
Mechanical features		
Dim	40.8x23.5x20.5	mm
Material	Aluminium	
Weight	35	g
Protection	IP66	
Environment		
Vibration test	20Gpp 5'	
Shock	500	G
Operating Temp	-20 to +85	°C
Storage Temp	-40 to +125	°C

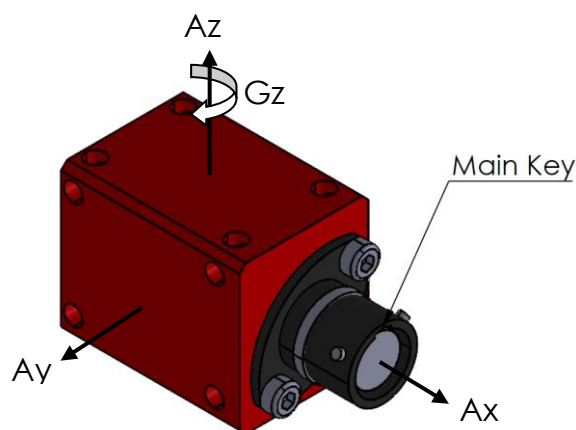
Accelerometer Sensor Readings			
	X	Y	Z
Signal (V) @ -1G			
Signal (V) @ 0G			
Signal (V) @ +1G			
Sensitivity (mV/G)			
Cut off frequency -3dB (Hz)			
Cross axis (%)			
Gyroscope Sensor Readings			
	0°/s		mV/°/s
Z			

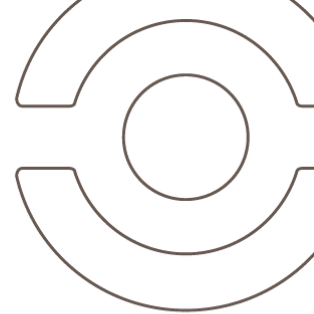
Connector: ASDD-0-06-09-P-N

Function	Pin
Supply	1
Signal Z Gyro	2
0V	3
Signal X Acc	4
Signal Y Acc	5
Signal Z Acc	6
manufacturer reserved	7-8-9

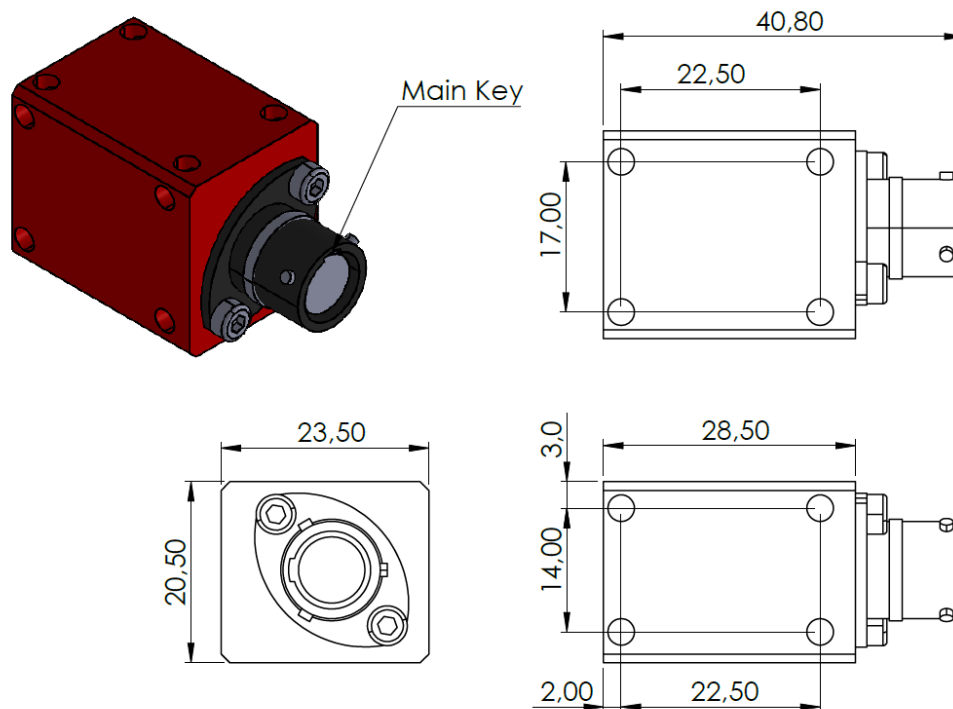
Acc. Calibration table						Gyro. Calibration table		
g	3G 666mV/g	5G 400mV/g	10G 200mV/g	15G 133mV/g	20G 100mV/g	°/s	$\pm 100^\circ/s$ 20mV/°/s	$\pm 150^\circ/s$ 13.3mV/°/s
-20					0.5			
-15				0.5	1.0	-150		0.5
-10			0.5	1.17	1.5	-100	0.5	1.17
-5		0.5	1.5	1.83	2.0	-50	1.5	1.83
-3	0.5	1.3	1.9	2.1	2.2	-25	2	2.17
0	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5
3	4.5	3.7	3.1	2.9	2.8	25	3	2.83
5		4.5	3.5	3.17	3.0	50	3.5	3.17
10			4.5	3.83	3.5	100	4.5	3.83
15				4.5	4.0	150		4.5
20					4.5			

Out of Range





Mechanical definition



Ordering

Ordering ref

ex: IB4-XY3-Z15-G100

IB4-XYRange-ZRange-GRange

Range				
Acc XY	±3g	±5g		
Acc Z	±5g	±10g	±15g	±20g
Gyro Z	±100°/s	±150°/s		