

# IB3G

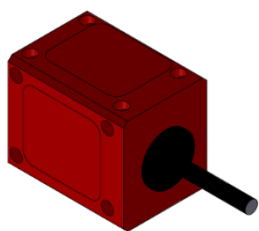
Gas technology 3 axis accelerometer

IB3G-XY##-Z##

SN: B#####

Texense sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

Accelerometer X, Y and Z axis features		
Available Ranges	$\pm 1, \pm 2, \pm 5, \pm 10$	G
Accuracy	$\pm 2$	%FS
Sensitivity	2000 to 200 $\pm 2\%$	mV/G
Bandwidth (@ -3dB)	DC to 20 $\pm 15\%$	Hz
Signal at 0G	2.5 $\pm 0.05$	V
Offset Drift (20 to 80°C)	$\pm 50$	mV
Gain Drift (20 to 80°C)	$\pm 1.5$	%
Symmetry of sensitivity S +1g / S -1g	10	%
Cross axis sensitivity	4	%
Electrical features		
Supply Voltage	5 to 16	V
Supply Current	16	mA
Output Voltage	0 to 5	V
Output Impedance	47	$\Omega$
Calibrator	LDS V406	
Mechanical features		
Dimensions	29.5 x 23.5 x 20.5	mm
Material	Aluminum	
Weight	30	g
Protection	IP66	
Environment		
Vibration test	20Gpp 5'	
Shock	1000	G
Operating Temp	-20 to +100	°C
Storage Temp	-40 to +125	°C

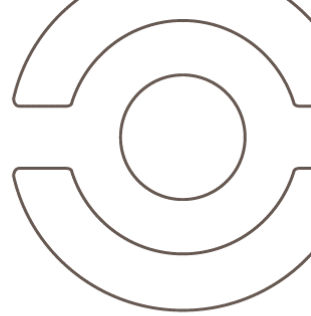


Date	##/##/####	Operator	
Order			
Customer			
Product Ref	IB3G-XY##-Z##		
SW version	V###		

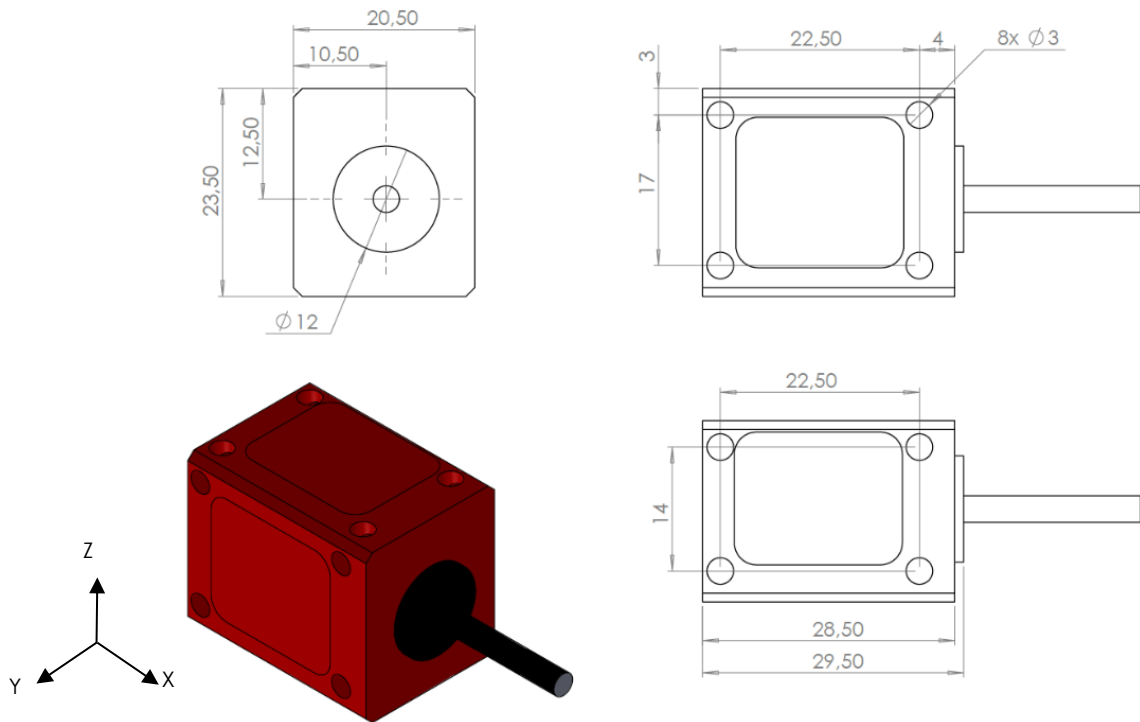
Accelerometer Sensor Readings			
	X	Y	Z
Signal (V) @ -1G			
Signal(V) @ 0G			
Signal (V) @ +1G			
Sensitivity (mV/G)			
Cut off freq. (Hz) -3dB			
Cross axis (%)			

Pinout		
Colour	Function	Pin
Red	Supply	
Black	0V	
White	Signal X	
Green	Signal Y	
Yellow	Signal Z	
Braid	Not connected	

Calibration table				
	1G 2 V/G	2G 1 V/G	5G 400 mV/G	10G 200 mV/G
-10				0.5
-5			0.5	1.5
-2		0.5	1.7	2.1
-1	0.5	1.5	2.1	2.3
0	2.5	2.5	2.5	2.5
+1	4.5	3.5	2.9	2.7
+2		4.5	3.3	2.9
+5			4.5	3.5
+10				4.5



## Mechanical drawing



## Ordering information

**Ordering ref:**

IB3G - XYRange - ZRange

1: Range  $\pm 1G$

2: Range  $\pm 2G$

5: Range  $\pm 5G$

10: Range  $\pm 10G$

1: Range  $\pm 1G$

2: Range  $\pm 2G$

5: Range  $\pm 5G$

10: Range  $\pm 10G$

ex: IB3G-XY5-Z10