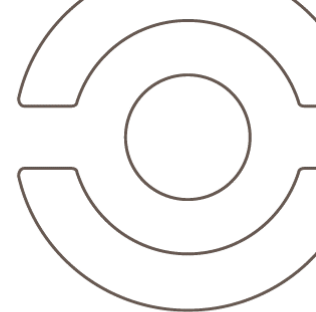




IB3

3 axis accelerometer

SN: B#####

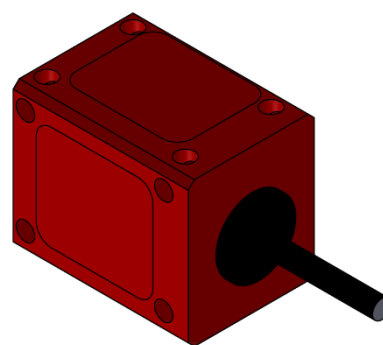
Texense sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

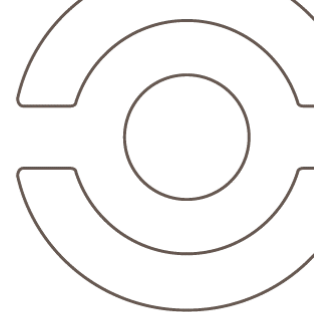
Accelerometer X and Y axis features (Gas technology)		
Available Ranges	±1, ±2, ±5 or ±10	G
Accuracy	±2	%FS
Sensitivity	2000 to 200 ±2%	mV/G
Bandwidth (@ -3dB)	DC to 20 ±15%	Hz
Signal at 0G	2.500 ±0.050	V
Offset Drift (20 to 80°C)	±20	mV
Gain Drift (20 to 80°C)	±1.5	%
Cross axis sensitivity	4	%
Accelerometer Z axis features (Capacitive technology)		
Available Ranges	±5, ±10, ±15, ±20	G
Accuracy	±1.5	%FS
Sensitivity	400 to 100 ±8%	mV/G
Standard bandwidth (@ -3dB)	DC to 70	Hz
Max bandwidth on request (@ -3dB)	DC to 700	Hz
Filter	Butterworth 2 nd order	
Z signal at 0G	2.500 ±0.050	V
Offset Drift (20 to 80°C)	±20	mV
Gain Drift (20 to 80°C)	±1	%
Cross axis sensitivity	2.5	%
Electrical features		
Supply Voltage	6 to 16	V
Supply Current	12	mA
Output Voltage	0-5	V
Output Impedance	47	Ω
Mechanical features		
Housing Dim	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 +85	°C
Storage Temp	-40 to +125	°C

Date	##/##/####	Operator	
Order			
Customer			
Product Ref	IB3-XY#-Z##		
SW version (ACC Gas board)	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 (%)			

Cable		
5x26 AWG FEP tinned copper braided cable 250V 200°C		
Length: 1000mm Tubing: 50mm		
Connector: on request		
Color	Function	Pin
Red	Supply	
Black	0V	
White	Signal X	
Green	Signal Y	
Yellow	Signal Z	
Braid	Not connected	





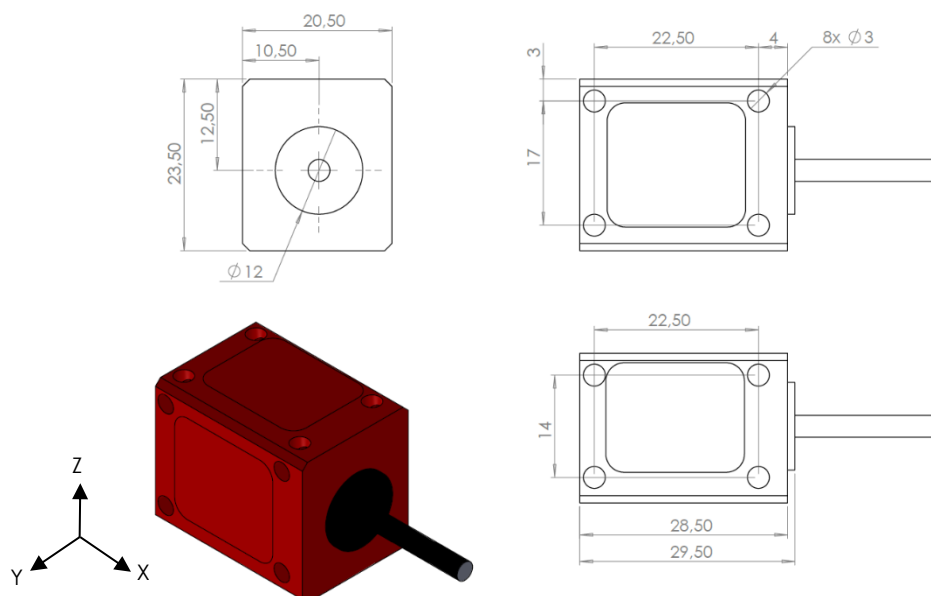
Calibration table

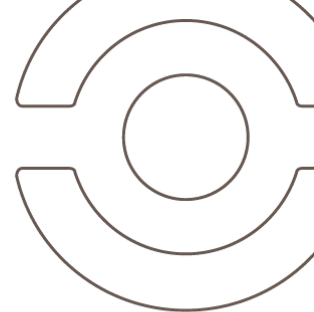
Acc. Calibration table						
G	1G 2000mV/g	2G 1000mV/g	5G 400 mV/g	10G 200 mV/g	15G 133mV/g	20G 100mV/g
-20						0.500
-15					0.500	1.000
-10				0.500	1.167	1.500
-5			0.500	1.500	1.833	2.000
-2		0.500	1.700	2.100	2.233	2.300
-1	0.500	1.500	2.100	2.300	2.367	2.400
0	2.500	2.500	2.500	2.500	2.500	2.500
1	4.500	3.500	2.900	2.700	2.633	2.600
2		4.500	3.300	2.900	2.767	2.700
5			4.500	3.500	3.167	3.000
10				4.500	3.833	3.500
15					4.500	4.000
20						4.500

Out of range



Mechanical drawing





Ordering information

Ordering ref:

IB3 - XYRange - ZRange

1: Range $\pm 1G$

2: Range $\pm 2G$

5: Range $\pm 5G$

10: Range $\pm 10G$

5: Range $\pm 5G$

10: Range $\pm 10G$

15: Range $\pm 15G$

20: Range $\pm 20G$

ex : IB3-XY5-Z20