AC-CAP2

## 2 axis capacitive accelerometer 5 to 20G range

SN: A########

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.

Measurement features		
Available ranges	±5, ±10, ±15, ±20	G
Sensitivity	400 to 100 ±8%	mV/G
Sensitivity drift (20 to 80°C)	±1	%
Signal at 0G	2.500 ± 0.100	V
Offset drift (20 to 80°C)	±20	mV
Cut-off frequency -3dB (±15%) — Min	10	Hz
Cut-off frequency -3dB (±15%) — Default	65	Hz
Cut-off frequency -3dB (±15%) — Max	700	Hz
Calibrator	LDS V406	
Resonance	5000	Hz
Typical Cross axis sensitivity	2.5	%
Electrical features		
Supply Voltage	6 to 28	V
Supply Current	< 3	mA
Output Voltage	0 – 5	V
Output Impedance	47	Ω
Mechanical features		
Dimensions	25x16x8	mm
Material	Aluminium	
Weight (without cable)	7	g
Protection	IP66	
Environment		
Shock	1000	G
Insulation under 50V_{DC}	>55	MΩ
Operating Temp	-20 to +100	°C
Storage Temp	-40 to +125	°C
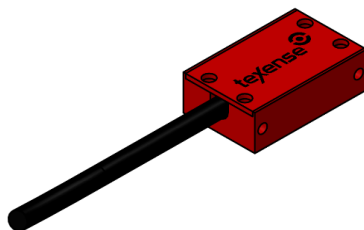
Date		Operator	
Customer			
Order			
Product Ref	AC-CAP2-##-##		

Sensor readings		
Axis	X	Y
Signal @ -1G	…V	…V
Signal @ 0G	…V	…V
Signal @ +1G	…V	…V
Sensitivity	…mV/G	…mV/G
Cut off frequency at -3 dB	…Hz	…Hz
Cross Axis	…%	…%

Cable		
4x26AWG FEP tinned copper braided cable 250V 200°C Length: 1000mm　　　Tubing : Connector: on request		
Color	Function	Pin
Red	Supply	-
Black	0V	-
White	Signal X	-
Green	Signal Y	-
Braid	Connected to case	

Standard calibration table				
	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
0	2.500	2.500	2.500	2.500
+5	4.500	3.500	3.167	3.000
+10		4.500	3.833	3.500
+15			4.500	4.000
+20				4.500

A brand of texys GROUP
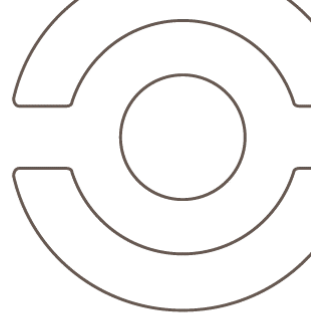
Mechanical drawing
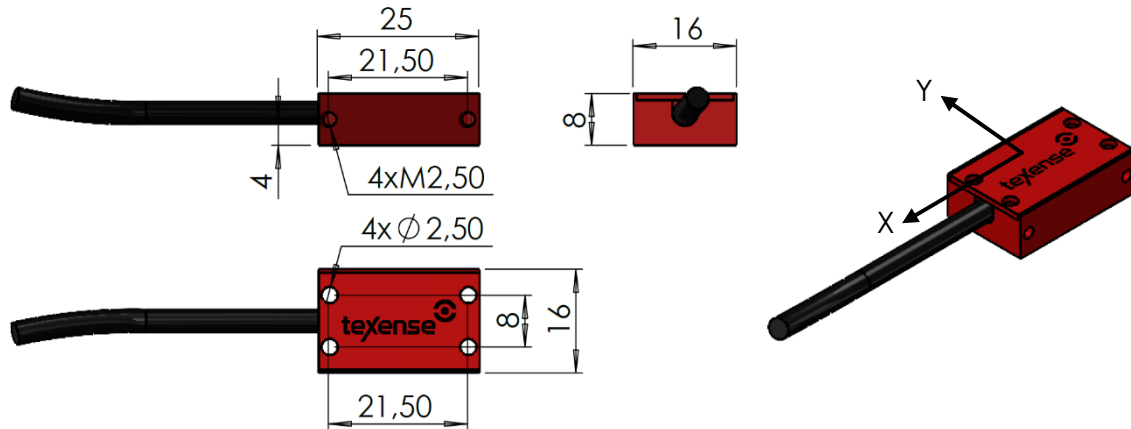
Example of Texense inertial units installation

The mounting holes enable to build a compact custom inertial system, mixing accelerometers and gyroscopes.

Ordering information

Ordering ref:

AC-CAP2 – *Range – Cut off frequency*

5: Range ±5G
10: Range ±10G
15: Range ±15G
20: Range ±20G

Cut off frequency -3dB in Hz
10: 10Hz (min)
…
65: 65Hz (default)
…
700: 700Hz (max)

ex: AC-CAP2-5-65