



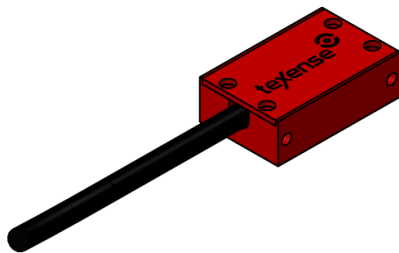
AC-CAP1

1 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	$\pm 5, \pm 10, \pm 15, \pm 20$	G
Sensitivity	400 to 100 $\pm 8\%$	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 ($\pm 10\%$)	Min	10
	Default	65
	Max	700
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 _{bc}	>55	M Ω
Operating Temp	-20 to +100	°C
Storage Temp	-40 to +125	°C

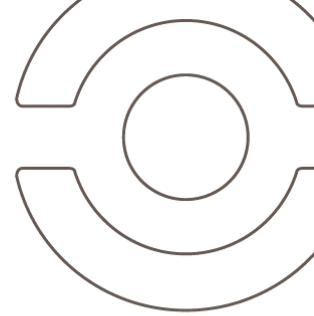


Date		Operator	
Order			
Customer			
Product Ref	AC-CAP1-##-##		

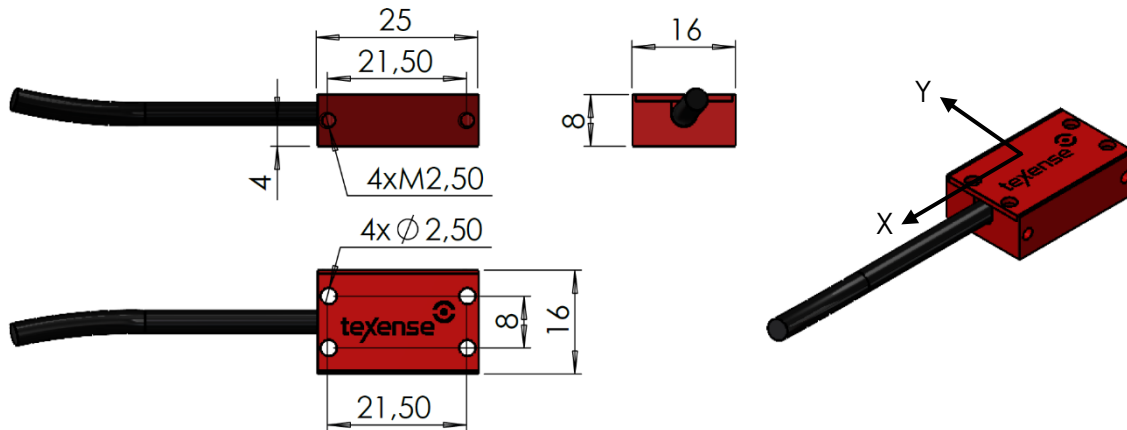
Sensor readings	
Axis	
Signal @ -1G	...V
Signal @ 0G	...V
Signal @ +1G	...V
Sensitivity	...mV/G
Cut off frequency at -3 dB	...Hz
Cross Axis	...%

Cable		
<input checked="" type="checkbox"/> 3x26AWG FEP tinned copper braided cable 250V 200°C <input type="checkbox"/> EPD 117723A Length: 1000mm Tubing : Connector: on request		
Color	Function	Pin
Red	Supply	-
Black	0V	-
White or yellow	Signal	-
Braid (not for EPD117723A)	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



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-CAP1 – Axis Range – Cut off frequency

<p>X: X axis considered (Y not wired) Y: Y axis considered (X not wired)</p>	<p>Cut off frequency -3dB in Hz 10: 10Hz (min) ... 65: 65Hz (default) ... 700: 700Hz (max)</p>
<p>5: Range ±5G 10: Range ±10G 15: Range ±15G 20: Range ±20G</p>	

ex: AC-CAP1-Y5-65:

- Y axis range ±5G
- 65Hz cut-off frequency at -3dB