



# **AC-CAP1-Z**

#### 1 vertical 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.

responsibility from doing	J SO.					
Measurement features						
Available ranges		±5, ±10, ±15, ±20	G			
Sensitivity		400 to 100 ±2%	mV/G			
Sensitivity Drift (20 to 80°C)		±2.5	%			
Signal at 0G		$2.500 \pm 0.050$	V			
Offset Drift (20 to 80°C)		±30	mV			
Cut-off frequency	Min	10				
-3dB	Default	65	Hz			
(±10%)	Max	500				
Calibrator		LDS V406				
Resonance		5000	Hz			
Typical Cross axis sensitivity		3	%			
Electrical features						
Supply Voltage(1)		5 to 16	V			
Supply Current		< 3	mA			
Output Voltage		0 – 5	V			
Output Impedance		< 10	Ω			
Max output Load		5000	Ω			
	Mechanica	l features				
Dimensions		25x16x8	mm			
Material		Aluminium				
Weight (without	cable)	7	g			
Protection		IP66				
Environment						
Shock		1000	G			
Insulation under 50V <sub>DC</sub>		>55	ΜΩ			
Operating Temp		-20 to +100	°C			
Storage Tem	np	-40 to +125	°C			
(1) A+ E\/ supply yo	11	utputs are saturated to	16501			

<sup>(1)</sup> At 5V supply voltage, the outputs are saturated to 4.650V. Accuracy features are not impacted in the operating range.

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

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

Cable					
☐ Sx26AWG FEP tinned copper braided cable 250V 200°C ☐ EPD 117723A  Length: 1000mm  Tubing:  Connector: on request					
Color	Function	Pin			
Red	Supply	-			
Black	OV	-			
White or yellow	Signal	-			
Braid (not for EPD117723A)	Connected to case				

	5G	10G		
			15G	20G
4	400 mV/G	200 mV/G	133mV/G	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

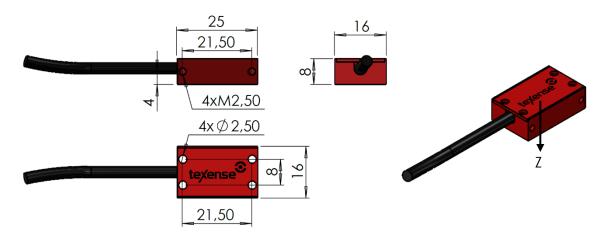








### Mechanical drawing



## **Example of Texense inertial units installation**



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

#### **Ordering information**

