



AC-CAP1-Z

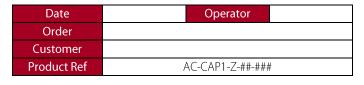
1 vertical axis capacitive accelerometer 5 to 20G range

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	SO.				
	Measureme	ent 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 ± 0.050	V		
Offset Drift (20 to 80°C)		±30	mV		
Cut-off frequency -3dB (±10%)	Min	10			
	Default	65	Hz		
	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	mΑ		
Output Voltage		0 – 5	V		
Output Impedance		< 10	Ω		
Max output Load		5000	Ω		
Mechanical features					
Dimensions		25x16x8	mm		
Material		Aluminium			
Weight (without cable)		7	g		
Protection		IP66			
	Enviro	nment			
Shock		1000	G		
Insulation under 50V _{DC}		>55	ΜΩ		
Operating Temp		-20 to +100	°C		
Storage Tem		-40 to +125	°C		
(1) At 5V supply voltage the outputs are saturated to 4.650V					

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



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	%			

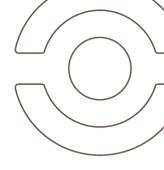
Cable					
☑ 3x26AWG FEP tinned copper braided cable 250V 200°C ☐ EPD 117723A					
Length: 1000mm Tubing : Connector: on request					
Color	Function	Pin			
Red	Supply	-			
Black	OV	-			
White or yellow	Signal	-			
Braid (not for EPD117723A)	Not connected				

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	

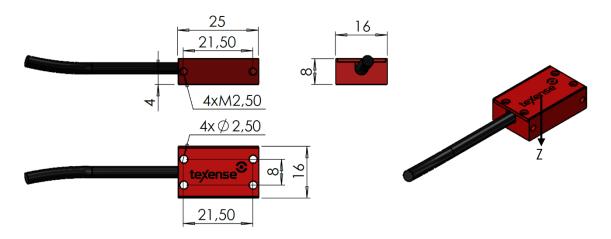








Mechanical drawing



Example of Texense inertial units installation



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

Ordering information

