

AC-CAP3-2

3 axis capacitive accelerometer 2G 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.

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	Measureme	nt features			
Range		±2	G		
Sensitivity		1000 ± 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 ⁽¹⁾	500			
Calibrator		LDS V406			
Resonance		5000	Hz		
Typical Cross axis sensitivity		3	%		
	Electrical	features			
Supply Voltage ⁽²⁾		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			
Dimension	S	25x16x8	mm		
Material		Aluminium			
Weight (without cable)		7	g		
Protection		IP66			
Environment					
Shock		1000	G		
Insulation under 50V _{DC}		>55	ΜΩ		
Operating Temp		-20 to +100	°C		
Storage Temp		-40 to +125	°C		
(1) On X and Y axis only, it is possible to go up to 700Hz on request.					

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- (2) 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-CAP3-2-###

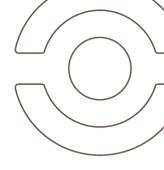
Sensor readings					
	Χ	Υ	Z		
Signal (V) @ -1G	V	V	V		
Signal (V) @ 0G	V	V	V		
Signal (V) @ +1G	V	V	V		
Sensitivity (mV/G)	mV/G	mV/G	mV/G		
Cut off frequency (Hz) at -3 dB	Hz	Hz	Hz		
Cross Axis (%)	%	%	%		

Cable				
5x26 AWG FEP tinned copper braided cable 250V 200°C Length: 1000mm Tubing: Connector: on request				
Color	Function	Pin		
Red	Supply	-		
Black	OV	-		
White	Signal X	-		
Green	Signal Y	-		
Yellow	Signal Z	-		
Braid	Connecte	ed to case		

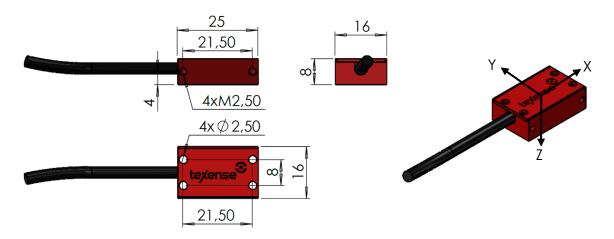
Standard calibration table		
Acceleration (G)	Output (1000mV/G)	
-2.0	0.500	
-1.5	1.000	
-1.0	1.500	
-0.5	2.000	
0.0	2.500	
0.5	3.000	
1.0	3.500	
1.5	4.000	
2.0	4.500	







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

