



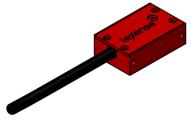
AC-CAP1-50

1 axis capacitive accelerometer 50G

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					
Range			±50	G	
Sensitivity		$40 \pm 8\%$	mV/G		
Sensitivity drift	20°C to 80°C		±2.5	%	
	20°C to 125°C		±4	. %	
Signal at 0G		2.500 ± 0.040	V		
Offset drift	20°C to 80°C		±20	\/	
	20°	C to 125°C	±30	mV	
Cut-off freque	ncv	Min	40		
-3dB		Default	270	Hz	
(±10%)		Max	400		
Calibrator		LDS V406			
Resonance			24	kHz	
Max Cross axis sensitivity		3	%		
Electrical features					
Supply Voltage			5.5 to 16	V	
Supply Current			< 3	mA	
Output Voltage			0 – 5	V	
Output Impedance			< 10	Ω	
		Mechanica	l features		
Dimensions			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 +125	°C	
Storage Temp			-40 to +125	°C	



Date	Operator
Customer	
Order	
Product Ref	AC-CAP1-#50-###

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				
☑ 3x26AWG FEP tinned copper braided cable 250V 200°C				
□ EPD117723A				
Length: 1000mm Tubing:				
Connector: on request				
Color	Function	Pin		
Red	Supply	-		
Black	0V	1		
White or yellow	Signal	-		
Braid (not for EPD117723A)	Not connected			

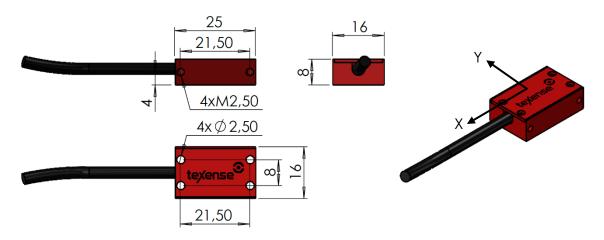
Standard calibration table		
Acceleration	Output signal	
(G)	(V)	
-50	0.500	
-40	0.900	
-30	1.300	
-20	1.700	
-10	2.100	
0	2.500	
+10	2.900	
+20	3.300	
+30	3.700	
+40	4.100	
+50	4.500	







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

