

## **AC-CAP-PRO-XHR**

Capacitive accelerometer extra high 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

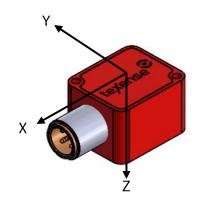
Measurement features					
Range ±100 or ±200	G				
Range ±100G 20 ± 3%	mV/G				
Sensitivity Range $\pm 200G$ $10 \pm 4\%$	IIIV/G				
Sensitivity drift (20 to 80°C) ±4	%				
Signal at 0G 2.500 ± 0.020	V				
Offset drift Range ±100G ±50	/				
(20 to 80°C) Range ±200G ±25	mV				
Cut-off frequency Min 50					
-3dB Default 1000	Hz				
(±10%) Max 1200					
Calibrator LDS V406	5				
Resonance 16500	Hz				
Max Cross axis sensitivity 5	%				
Electrical features	•				
Supply Voltage <sup>(1)</sup> 5 to 30	V				
Supply Current 2	mA				
Output Voltage <sup>(1)</sup> 0 – 5	V				
Output Impedance < 10	Ω				
Max output load 5000	Ω				
Mechanical features					
<b>Dim</b> 38x22x18	mm				
Material Aluminiur	Aluminium				
Aluminiur					
Weight 19	g				
	g				
Weight 19	g				
Weight 19 Protection IP66	g				
Weight 19 Protection IP66 Environment					
Weight 19 Protection IP66 Environment Shock 1000	G				

<sup>(1)</sup> Output signal is saturated to supply voltage – 0.350V. Thus, at 5V supply voltage, the outputs are limited to 4.650V. Offset and sensitivity are not changed as they are regulated.

Date	Operator	
Customer		
Order		
Product Ref	AC-CAP-PRO-XHR-#-X#-Y#-Z#-##	

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

Calibration table				
Acceleration	Range 100G	Range 200G		
	20 mV/G	10 mV/G		
G	V	V		
-200		0.500		
-150		1.000		
-100	0.500	1.500		
-50	1.500	2.000		
0	2.500	2.500		
50	3.500	3.000		
100	4.500	3.500		
150		4.000		
200		4.500		

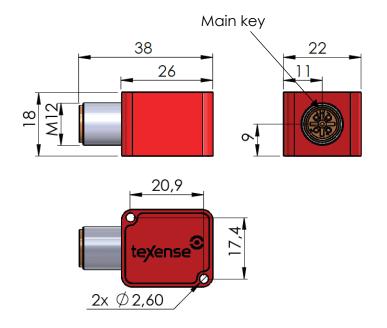








## **Mechanical drawing**



## **Pinout**

Connector				
M12-A 5 pins connector				
Pin	Function	Comment		
1	Supply			
2	0V			
3	Signal X	Not wired if XN code		
4	Signal Y	Not wired if YN code		
5	Signal Z	Not wired if ZN code		

## **Ordering information**

