

# **ACK-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 doina so.

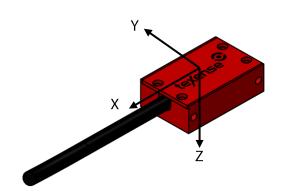
doina so.				
Measurement features				
Raı	nge	±50, ±100 or ±200	G	
Sensitivity	Range ±50G	40 ± 2%	mV/G	
	Range ±100G	20 ± 3%		
	Range ±200G	10 ± 4%		
Sensitivity drift (20 to 80°C)		±4	%	
Signal at 0G		$2.500 \pm 0.020$	V	
25	Range ±50G	±100		
Offset drift (20 to 80°C)	Range ±100G	±50	mV	
	Range ±200G	±25		
Cut-off	Min	50		
frequency -3dB	Default	1000	Hz	
(±10%)	Max	1000		
Calib	orator	LDS V406		
Reso	nance	16500	Hz	
Max Cross axis sensitivity		6	%	
	Electrical	features		
Supply Voltage(1)		5 to 30	V	
Supply	Current	2	mA	
Output \	Voltage <sup>(1)</sup>	0 – 5	V	
Output In	npedance	< 10	Ω	
Max out	put load	5000	Ω	
	Mechanica	l features		
D	im	25x16x8	mm	
Mat	erial	Aluminium		
Weight		15	g	
Protection		IP66		
Environment				
Shock		1000	G	
Insulation (	under 50V <sub>DC</sub>	>100	ΜΩ	
Operatii	ng Temp	-20 to +105	°C	
Storage Temp		-40 to +125	°C	

<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	ACK-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 50G	Range 100G	Range 200G
	40mV/G	20 mV/G	10 mV/G
G	V	V	V
-200			0.500
-150			1.000
-100		0.500	1.500
-50	0.500	1.500	2.000
0	2.500	2.500	2.500
50	4.500	3.500	3.000
100		4.500	3.500
150			4.000
200			4.500

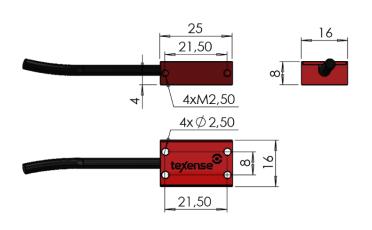








# **Mechanical drawing**



# Wiring

26 AWG FEP tinned copper braided cable 250V 200°C Length: 1000mm Tubing: 50mm Connector: on request				
Axis configuration				
Number of axis	Total number of wires	Axis	Wire color	Function
			Red	Supply
			Black	0V
1	3	Χ	White	X output
		Υ	White	Y output
		Z	White	Z output
2	4	XY	White	X output
			Green	Y output
		YZ	White	Y output
			Green	Z output
		XZ	White	X output
			Green	Z output
3	5	XYZ	White	X output
			Green	Y output
			Yellow	Z output
-		-	Braid	1

Cable

# **Ordering information**

