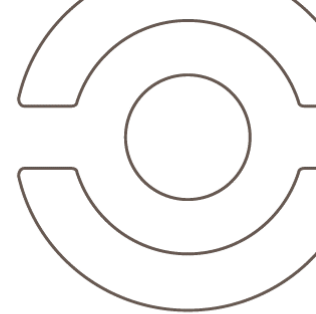




ACK-HR

Capacitive accelerometer high range

SN: A#####

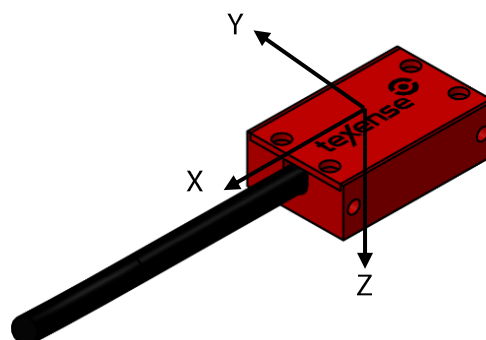
Texense sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

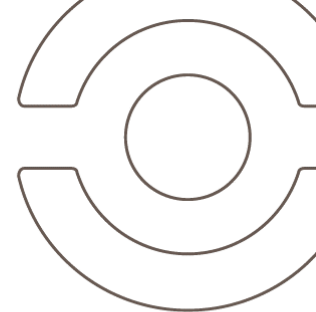
Measurement features		
Range	±40	G
Sensitivity	50 ± 5%	mV/G
Sensitivity drift (20 to 80°C)	±2.5	%
Signal at 0G	2.500 ± 0.020	V
Offset drift (20 to 80°C)	±30	mV
Cut-off frequency -3dB (±10%)	Min	30
	Default	1000
	Max	1350
Calibrator	LDS V406	
Resonance	5.5	kHz
Max Cross axis sensitivity	4	%
Electrical features		
Supply Voltage	6 to 16	V
Supply Current	< 1	mA
Output Voltage ⁽¹⁾	0 – 5	V
Output Impedance	500	Ω
Mechanical features		
Dim	25x16x8	mm
Material	Aluminum	
Weight	26	g
Environment		
Protection	IP66	
Shock	1000	G
Insulation under 50V _{DC}	>100	MΩ
Operating Temp	-40 to +125	°C
Storage Temp	-40 to +125	°C

Date		Operator	
Customer			
Order			
Product Ref	ACK-HR-#-X#-Y#-Z#-###		

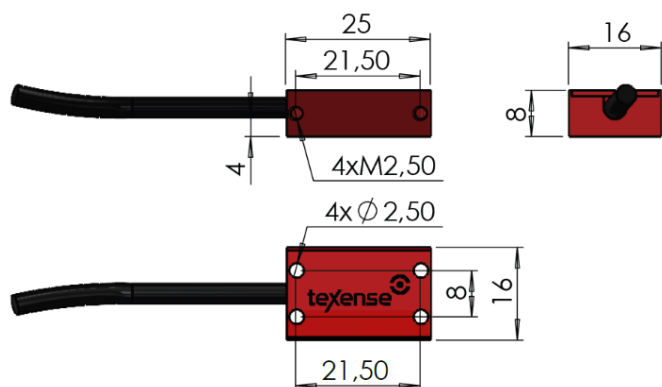
Sensor readings			
	X	Y	Z
Signal (V) @ 0G			
Sensitivity (mV/G)			
Cut off frequency (Hz) at -3 dB			
Cross Axis (%)			

Calibration table	
Acceleration (G)	Signal (V) 50 mV/G
-40	0.500
-30	1.000
-20	1.500
-10	2.000
0	2.500
10	3.000
20	3.500
30	4.000
40	4.500





Mechanical drawing



Wiring

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

Ordering information

Ordering ref:				
ACK - <u>HR</u> - <u>Nb Axis</u> - <u>XRange</u> - <u>YRange</u> - <u>ZRange</u> - <u>Cut off frequency</u>				
<u>HR</u> : High range				Cut off frequency -3dB in Hz
	<u>1</u> : 1 axis	<u>N</u> : Not wired		<u>30</u> : 30Hz (min)
	<u>2</u> : 2 axis	<u>40</u> : Range $\pm 40G$		...
	<u>3</u> : 3 axis			<u>1000</u> : 1000Hz (default)
				...
				<u>1350</u> : 1350Hz (max)
ex: ACK-HR-2-X40-YN-Z40-1000:				
2 axis: - X axis range $\pm 40G$ - Y axis not wired - Z axis range $\pm 40G$ 1000Hz cut-off frequency at -3dB				