

Quartz Flexible Accelerometer

Product Model:	HTS-A1
Product Model:	HTS-B3
Product Model:	HTS-C5
Product Model:	HTS-E7
Product Model:	HTS-F9
Product Model:	HTS-G11
Product Model:	HTS-AI13
Product Model:	HTS-BI15
Product Model:	HTS-CI17





Product Model: HTS-A

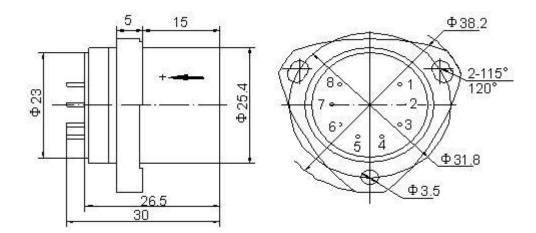
Application: Can be used in the vector's micro-gravity measurement system and high precision inertial navigation system, and also can be used in the high precision static angle measurement system.



Product		Model: HTS-A	Model: HTS-A	
Specification	03	02	01	
Measurement Range	≥±20g	≥±20g	≥±20g	
Bias	≤±1mg	≤±3mg	≤±3mg	
Bias Temp Coefficient	≤±10 µg/°C	≤±10 µg/°C	≤±15 µg/°C	
Bias Repeatability	≤10 µg (one month)	≤20 µg (one month)	≤30 µg (one month)	
Scale Factor	1.1~1.5 mA/g	1.1~1.5 mA/g	1.1~1.5 mA/g	
Scale Factor Temp Coefficient	≤±10 ppm/°C	≤±20 ppm/°C	≤±30 ppm/°C	
Scale Factor Repeatability	≤10 ppm (one month)	≤20 ppm (one month)	≤30 ppm (one month)	
Second-order Nonlinearity	≤±10 µg/g²	≤±10 µg/g²	≤±15 µg/g²	
Second-order Nonlinearity Repeatability	≤10 µg/g² (one month)	≤10 µg/g² (one month)	≤10 µg/g² (one month)	
Threshold	≤5×10 ⁻⁶ g	≤5×10 ⁻⁶ g	≤5×10 ⁻⁶ g	
Nature Frequency	≤800Hz	≤800Hz	≤800Hz	
Operating Voltage	±12~±15 V	±12~±15 V	±12~±15 V	
Operation Temperature	-45~+80 °C	-45~+80 °C	-45~+80 °C	
Shock	120g,4.5ms,1/2sin	120g,4.5ms,1/2sin	120g,4.5ms,1/2sin	
Vibration	8 grms	8 grms	8 grms	
Dimension	Ф25.4*30 mm	Ф25.4*30 mm	Ф25.4*30 mm	
Weight	≤80g	≤80g	≤80g	









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Product Model: HTS-B

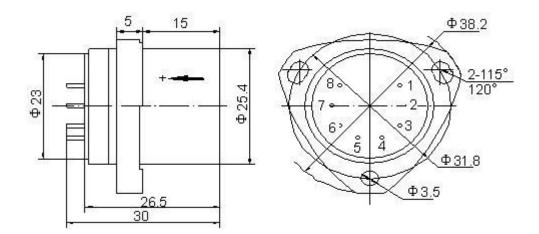
Application: Available in inertial navigation system, it has a wide application in inertial navigation system and control system of the aerospace vehicles and ships.



Product Specification	Model: HTS-B		
	02	01	
Measurement Range	≥±20g	≥±20g	
Bias	≤±3mg	≤±3mg	
Bias Temp Coefficient	≤±30 µg/°C	≤±40 µg/°C	
Bias Repeatability	≤30 µg (one month)	≤30 µg (one month)	
Scale Factor	1.1~1.5 mA/g	1.1~1.5 mA/g	
Scale Factor Temp Coefficient	≤±50 ppm/°C	≤±60 ppm/°C	
Scale Factor Repeatability	≤30 ppm (one month)	≤30 ppm (one month)	
Second-order Nonlinearity	≤±20 µg/g²	≤±30 µg/g²	
Second-order Nonlinearity Repeatability	≤10 µg/g² (one month)	≤10 µg/g² (one month)	
Threshold	≤5×10 ⁻⁶ g	≤5×10 ⁻⁶ g	
Nature Frequency	≤800Hz	≤800Hz	
Operating Voltage	±12~±15 V	±12~±15 V	
Operation Temperature	-45~+80 °C	-45~+80 °C	
Shock	120g,4.5ms,1/2sin	120g,4.5ms,1/2sin	
Vibration	8 grms	8 grms	
Dimension	Ф25.4*30 mm Ф25.4*30 mm		
Weight	≤80g	≤80g	











Product Model: HTS-C

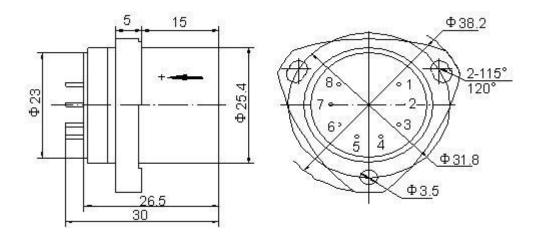
Application: Can be used in navigation system for tanks, military vehicles etc.



Product Specification	Model: HTS-C		
	02	01	
Measurement Range	≥±20g	≥±20g	
Bias	≤±4mg	≤±4mg	
Bias Temp Coefficient	≤±40 µg/°C	≤±50 µg/°C	
Bias Repeatability	≤40 µg (one month)	≤40 µg (one month)	
Scale Factor	1.1~1.5 mA/g	1.1~1.5 mA/g	
Scale Factor Temp Coefficient	≤±60 ppm/°C	≤±80 ppm/°C	
Scale Factor Repeatability	≤40 ppm (one month)	≤40 ppm (one month)	
Second-order Nonlinearity	≤±30 µg/g²	≤±50 µg/g²	
Second-order Nonlinearity Repeatability	≤20 µg/g² (one month)	≤20 µg/g² (one month)	
Threshold	d ≤5×10 ⁻⁶ g		
Nature Frequency	≤800Hz	≤800Hz	
Operating Voltage	±12~±15 V	±12~±15 V	
Operation Temperature	-45~+80 °C	-45~+80 °C	
Shock	120g,4.5ms,1/2sin	120g,4.5ms,1/2sin	
Vibration	8 grms	8 grms	
Dimension	Ф25.4*30 mm	Ф25.4*30 mm	
Weight	≤80g	≤80g	











Product Model: HTS-E

Application: Used in the acceleration measurement system of the moving object with space limitation.



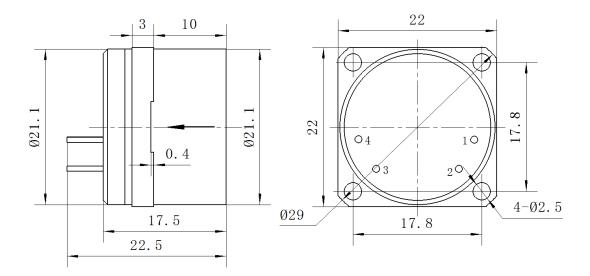




Product	Model: HTS-E		
Specification	03	02	01
Measurement Range	≥±20g	≥±20g	≥±20g
Bias	≤±6mg	≤±6mg	≤±6mg
Bias Temp Coefficient	≤±30 µg/°C	≤±40 µg/°C	≤±50 µg/°C
Bias Repeatability	≤50 µg (one month)	≤50 µg (3~7 days)	≤50 µg (1 day)
Scale Factor	1.0~1.4 mA/g	1.0~1.4 mA/g	1.0~1.4 mA/g
Scale Factor Temp Coefficient	≤±60 ppm/°C	≤±70 ppm/°C	≤±80 ppm/°C
Scale Factor Repeatability	≤50 ppm (one month)	≤50 ppm (3~7 days)	≤50 ppm (1 day)
Second-order Nonlinearity	≤±30 µg/g²	≤±40 µg/g²	≤±50 µg/g²
Second-order Nonlinearity Repeatability	≤30 µg/g² (one month)	≤30 µg/g² (3~7 days)	≤30 µg/g² (1 day)
Threshold	≤5×10 ⁻⁵ g	≤5×10 ⁻⁵ g	≤5×10 ⁻⁵ g
Nature Frequency	≤800Hz	≤800Hz	≤800Hz
Operating Voltage	±7~±12 V	±7~±12 V	±7~±12 V
Operation Temperature	-45~+80 °C	-45~+80 °C	-45~+80 °C
Shock	120g,4.5ms,1/2sin	120g,4.5ms,1/2sin	120g,4.5ms,1/2sin
Vibration	8 grms	8 grms	8 grms
Dimension	Ф21.1*22.5 mm	Ф21.1*22.5 mm	Ф21.1*22.5 mm
Weight	≤40g	≤40g	≤40g











Product Model: HTS-F

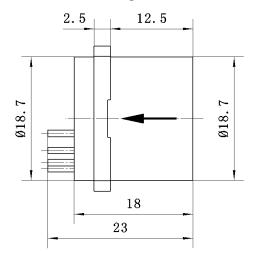
Application: Used in small size inertial navigation system

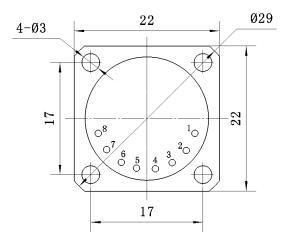


Product Specification	Model: HTS-F		
	02	01	
Measurement Range	≥±20g	≥±20g	
Bias	≤±3mg	≤±6mg	
Bias Temp Coefficient	≤±30 µg/°C	≤±50 µg/°C	
Bias Repeatability	≤30 µg (one month)	≤50 µg (one week)	
Scale Factor	0.8~1.2 mA/g	0.8~1.2 mA/g	
Scale Factor Temp Coefficient	≤±30 ppm/°C	≤±80 ppm/°C	
Scale Factor Repeatability	≤30 ppm (one month)	≤50 ppm (one week)	
Second-order Nonlinearity	≤±20 µg/g²	≤±50 µg/g²	
Second-order Nonlinearity Repeatability	≤10 µg/g² (one month)	≤20 µg/g² (one week)	
Threshold	≤5×10 ⁻⁵ g	≤5×10 ⁻⁵ g	
Nature Frequency	≤800Hz	≤800Hz	
Operating Voltage	±12~±15 V	±12~±15 V	
Operation Temperature	-45~+80 °C	-45~+80 °C	
Shock	120g,4.5ms,1/2sin	120g,4.5ms,1/2sin	
Vibration	8 grms	8 grms	
Dimension	Ф18.7*23 mm	Ф18.7*23 mm	
Weight	≤30g	≤30g	













Product Model: HTS-G

Application: Used in small size inertial navigation system



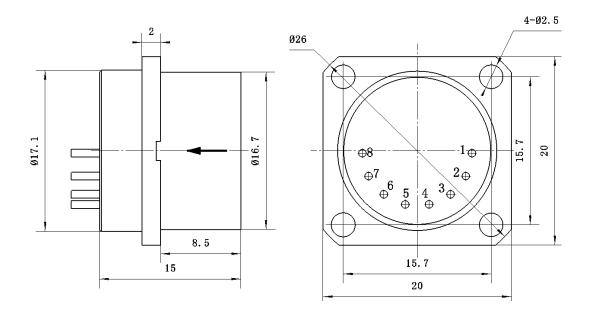




Product Specification	Model: HTS-G		
	02	01	
Measurement Range	≥±20g	≥±20g	
Bias	≤±5mg	≤±10mg	
Bias Temp Coefficient	≤±40 µg/°C	≤±60 µg/°C	
Bias Repeatability	≤50 µg (one month)	≤100 µg (one week)	
Scale Factor	1.8~1.2 mA/g	1.8~1.2 mA/g	
Scale Factor Temp Coefficient	≤±80 ppm/°C	≤±120 ppm/°C	
Scale Factor Repeatability	≤50 ppm (one month)	≤100 ppm (one week)	
Second-order Nonlinearity	≤±15 µg/g²	≤±30 µg/g²	
Second-order Nonlinearity Repeatability	≤20 µg/g² (one month)	≤30 µg/g² (one week)	
Threshold	≤5×10 ⁻⁵ g	≤5×10 ⁻⁵ g	
Nature Frequency	≤800Hz	≤800Hz	
Operating Voltage	±12~±15 V	±12~±15 V	
Operation Temperature	-45~+80 °C	-45~+80 °C	
Shock	120g,4.5ms,1/2sin	120g,4.5ms,1/2sin	
Vibration	8 grms	8 grms	
Dimension	Ф16.7*15 mm	Ф16.7*15 mm	
Weight	≤80g	≤80g	









Product Model: HTS-AI

Application: Used in the situation with high requirements for

environment and precision.

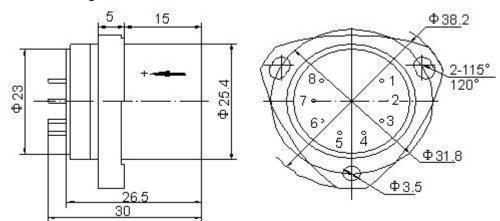






Product Specification	Model: HTS-AI		
	02	01	
Measurement Range	≥±20g	≥±20g	
Bias	≤±7mg	≤±7mg	
Bias Temp Coefficient	≤±50 µg/°C	≤±80 µg/°C	
Bias Repeatability	≤60 µg (3~7 days)	≤60 µg (1 day)	
Scale Factor	1.1~1.5 mA/g	1.1~1.5 mA/g	
Scale Factor Temp Coefficient	≤±60 ppm/°C	≤±80 ppm/°C	
Scale Factor Repeatability	≤60 ppm (3~7 days)	≤60 ppm (1 day)	
Second-order Nonlinearity	≤±50 µg/g²	≤±50 µg/g²	
Second-order Nonlinearity Repeatability	≤50 µg/g² (one month)	≤50 µg/g² (one week)	
Operating Voltage	±12~±15 V	±12~±15 V	
Operation Temperature	-45~+100 °C	-45~+100 °C	
Shock	120g,4.5ms,1/2sin	120g,4.5ms,1/2sin	
Vibration	8 grms	8 grms	
Dimension	Ф25.4*30 mm	Ф25.4*30 mm	
Weight	≤80g	≤80g	









Product Model: HTS-BI

Application: Mainly used in the inclination-while-drilling system and continuous inclination-measuring system of oil drilling, and can be widely used in other systems with bad working environment.





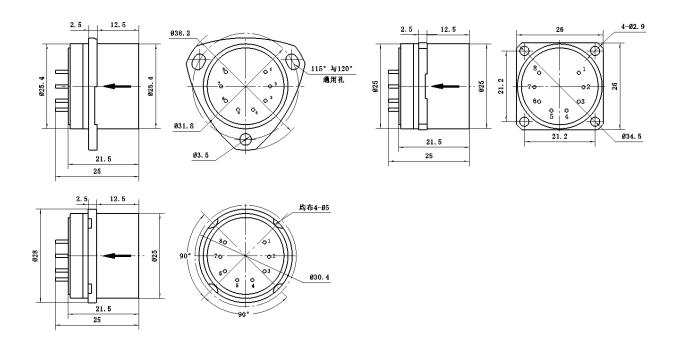




Product Specification		Model: HTS-BI	
		02	01
Measurement Range		≥±10g	≥±10g
Bias		≤±10mg	≤±10mg
Bias Temp Coefficient		≤±60 μg/°C	≤±80 μg/°C
Bias Repeatability		≤100 µg (3~7 days)	≤100 µg (1 day)
Scale Factor		2.5~3.5 mA/g	2.5~3.5 mA/g
Scale Factor Temp Coefficient	Room Temp~120°C	≤±80 ppm/°C	≤±100 ppm/°C
	120°C ~150°C	≤±500 ppm/°C	≤±500 ppm/°C
Scale Factor Repeatability		≤100 ppm (3~7 days)	≤100 ppm (1 day)
Shock		1000g,0.5ms,1/2sin	1000g,0.5ms,1/2sin
Vibration		20g(20~2000Hz)	20g(20~2000Hz)
Operating Voltage		±7~±12 V	±7~±12 V
Operation Temperature		-45~+150 °C	-45~+150 °C
Operation Temperature		-40~+150 °C	-40~+150 °C
Weight		≤55g	≤55g



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Product Model: HTS-CI

Application: Mainly used in the inclination-while-drilling system and continuous inclination-measuring system of oil drilling, and can be widely used in other systems with bad working environment.









		Model: HTS-CI	
Product Specification		02	01
Measurement Range		≥±10g	≥±10g
Bias		≤±10mg	≤±15mg
Bias Temp Coefficient		≤±60 μg/°C	≤±100 μg/°C
Bias Repeatability		≤100 µg (1 day)	≤100 µg (1 day)
Scale Factor		2.5~3.5 mA/g	2.5~3.5 mA/g
Scale Factor Temp Coefficient	Room Temp~120°C	≤±120 ppm/°C	≤±150 ppm/°C
	120°C ~150°C	≤±200 ppm/°C	≤±500 ppm/°C
Scale Factor Repeatability		≤100 ppm (1 day)	≤100 ppm (1 day)
Shock		1000g,0.5ms,1/2sin	1000g,0.5ms,1/2sin
Vibration		20g(20~2000Hz)	20g(20~2000Hz)
Operating Voltage		±7~±12 V	±7~±12 V
Operation Temperature		-45~+150 °C	-45~+150 °C
Operation Temperature		-40~+150 °C	-40~+150 °C
Dimension		Ф21.1*15 mm	Φ21.1*15 mm
Weight		≤30g	≤30g



