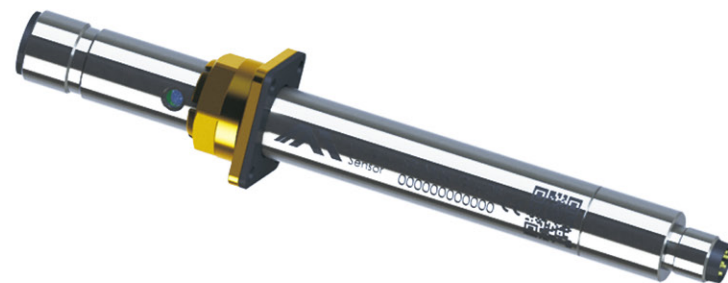
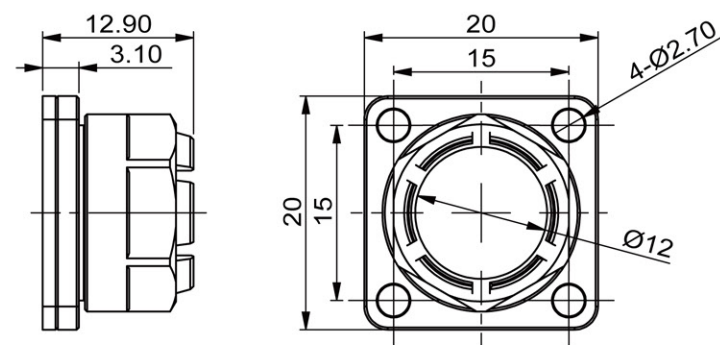


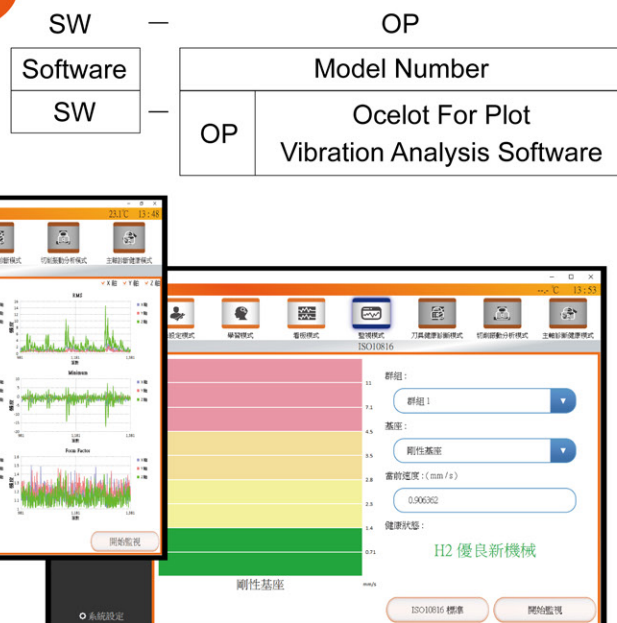
Retaining Bracket Outline Diagram



Assembly diagram

Ocelot For Plot

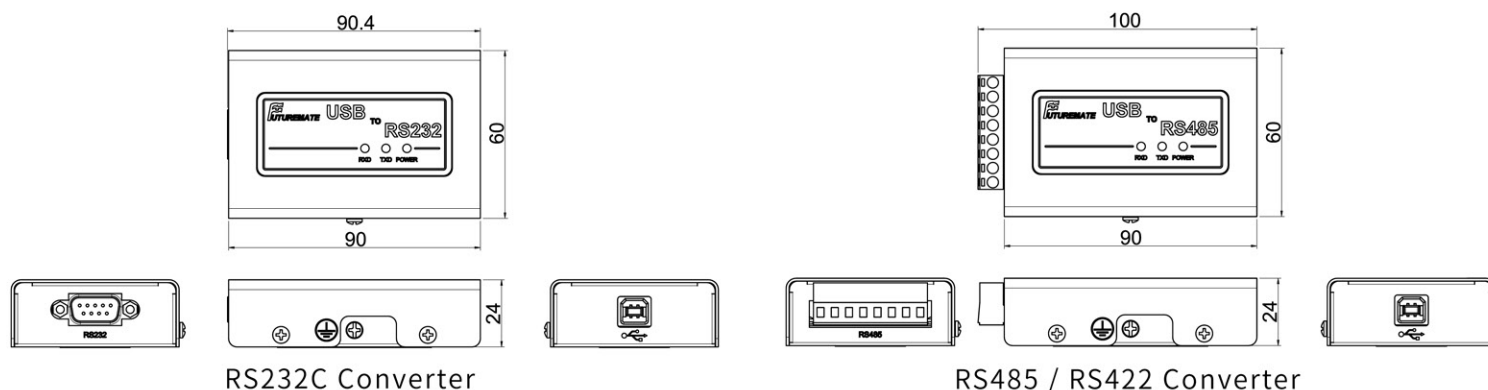
Optional



The software will efficiently detect the abnormal vibration event for the machine

USB to RS232C / RS485 / RS422 Converter

Optional



RS232C Converter

RS485 / RS422 Converter



13F., No. 953, Zhongzheng Rd., Zhonghe Dist., New Taipei City 23544, Taiwan
TEL : +886-2-2659-8339
FAX : +886-2-2659-8389



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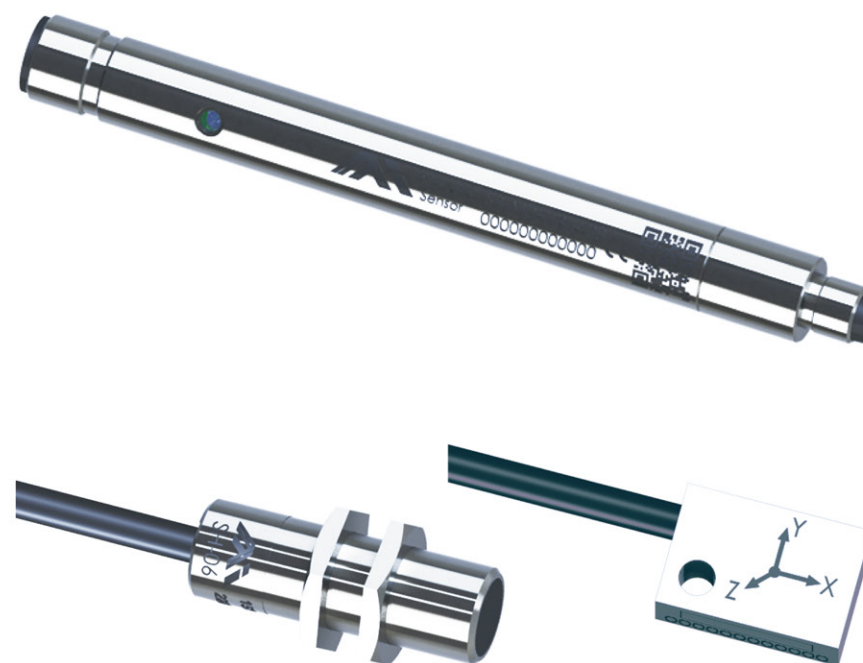
康信創意科技有限公司
Creative Maintenance Technology Co., Ltd.

SB-M0 Series

Intelligent Vibration & Temperature Sensor

Summary

SB-M0 Series is a digital intelligent sensor with 3 axis MEMS accelerometer and temperature sensor. The latest MEMS technology and high-efficiency edge computing function are used in this sensor to provide excellent sensitivity and reliability. The controller and sensor are separated design, suitable for limited space configuration applications. This sensor majorly applied for monitoring and detecting the abnormal condition to prevent unpredictable event, accident and downtime losses.



Features

- High accuracy, stability and low power consumption
- Output formats : Feature, Raw data, FFT and ISO10816
- 3 communication protocol : RS232, RS422, RS485RTU
- Equipped with LED status light
- The controller and sensor are designed separately, and the sensor is available in two sizes, circular and square, for application matching.
- Assort with OCELOT series software for vibration monitor and analysis
- Industrial-grade hardware design, providing excellent stability and extremely low power consumption
- Shell is made of weather & corrosion-resistant SUS stainless steel
- Easy to install, effectivity reduce resonance effect by Epoxy Potting compound method
- Industrial IP67-rated

Applications

- Machine Monitoring : Machine tools, Production line, Motor, Pump
- Public Transportation System : Metro, High speed rail, Train
- Public Facilities Monitoring : Building structural, Bridge, Elevator, Escalator
- Power Generation System : Wind power, Solar power
- Environmental Safety Monitoring : Flood, Seismic monitoring, Slope and rocks monitoring

Ordering Information

SB	M06		I3	6		08	
Controller	Series Number & Communication Protocol		Model & Axis		Bandwidth		Measuring Range
SB	M01	RS-232C	I3	3 Axes	1	1kHz	02 ±2g
	M02	RS-485 Modbus RTU					04 ±4g
	M03	RS-422					08 ±8g
							10 ±10g
							20 ±20g
							40 ±40g
	M04	RS-232C	I3	3 Axes	6	6kHz	02 ±2g
	M05	RS-485 Modbus RTU					04 ±4g
	M06	RS-422					08 ±8g
							16 ±16g

※1 The maximum communication distance of M01/M04 is less than 10 meters

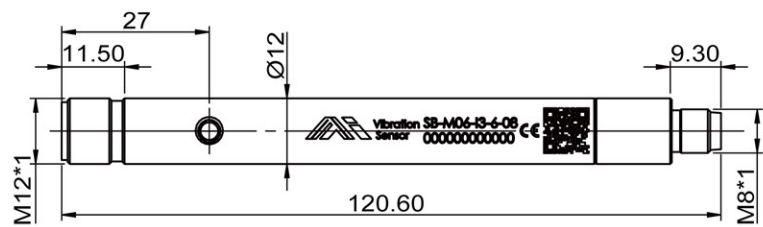
SH	06		01	02	
Sensor	Bandwidth		Appearance		Cable length
SH	01	1kHz	01	Circular	02 02m
	06	6kHz	02	Square	05 05m
					10 10m

Specification

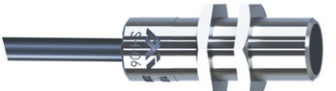
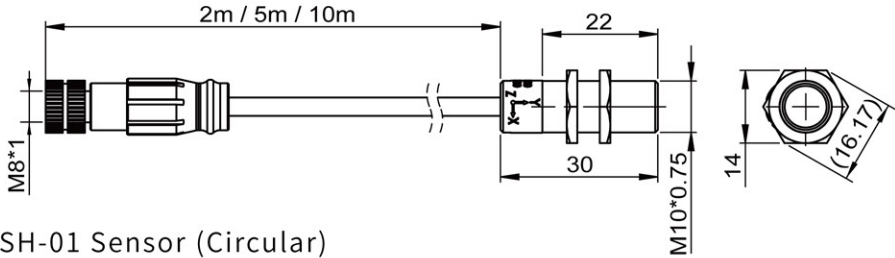
SB-M
Vibration
Sensor

	SB-M0 Controller	SH-01 Circular Sensor	SH-02 Square Sensor
Measurement Range	M01~03 : ±2g/±4g/±8g/±10g/±20g/±40g M04~06 : ±2g/±4g/±8g/±16g		
Sensitivity	M01~03 : 3.9@±2g , 7.8@±4g , 15.6@±8g (µg/LSB) 19.5K@±10g , 39@±20g , 78@±40g (µg/LSB) M04~06 : 0.061@±2g , 0.122@±4g , 0.244@±8g , 0.488@±16g (mg/LSB)		
Bandwidth	M01~03 : DC to 1kHz M04~06 : DC to 6kHz , Simulation to 10kHz		
Measurement Temperature	-10 to +105 °C		
Consumption Current @ Operating Voltage	DC 5 to 30V / 10mA @ 24VDC Below		
Communication Protocol & Baud Rate	RS-232C @921600bps RS-422 @921600bps RS-485 Modbus RTU @115200bps		
Data Format	1. Feature 3. FFT 2. Raw Data 4. ISO10816		
Data Feature	Mean , Standard Deviation , RMS , Crest Factor , Skewness , Kurtosis , Peak to Peak , Form Factor , Min , Max and Contact Temperature		
Installation Method	M2 Screw With Retaining Bracket	M10 Screw / Nut Fixing	M3 Screw Fixing
Maximum Impact	10,000g		
Dimension W x D x H	120.6 x 12 x 12 mm	30 x 10 x 10 mm	18 x 11.9 x 6.5 mm
Shell Material	SUS Stainless Steel		
Weight	50g ±5%	45g ±5% (2m cable included)	45g ±5% (2m cable included)
Working Temperature	-10 ~ +85 °C		
Storage Temperature	-20 ~ +100 °C		
Working Humidity	0 ~ 95%		
Water & Dust Resistance	IP67		

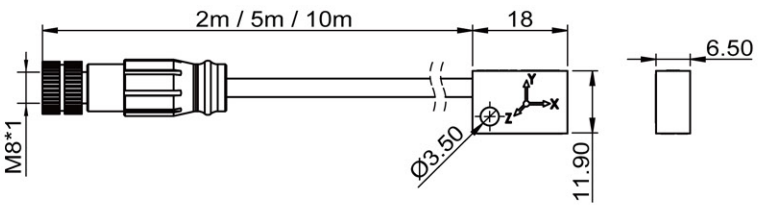
Outline Dimension



Separate Controller

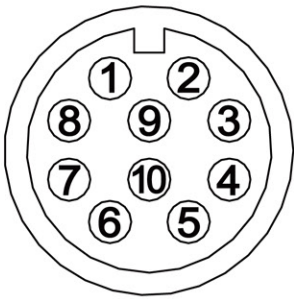


SH-01 Sensor (Circular)



SH-02 Sensor (Square)

Definition of Pin



No.	Colour	Fuction		
		RS232C	RS422	RS485
1	Green / Black	TxD	Tx+(Y)	A
2	Yellow / Black	RxD	Rx+(A)	NC
3	Green	NC	Tx-(Z)	B
4	Yellow	NC	Rx-(B)	NC
5	Gray / Black	ERR-LV1 Level 1 Error Alarm Output		
6	Gray	ERR-LV2 Level 2 Error Alarm Output		
7	Blue / Black	ERR-LV3 Level 3 Error Alarm Output		
8	Blue	EX-Reset Error Alarm Reset Input		
9	Pink / Black	0V		
10	Pink	+5 ~ 30V		
11	Isolation Net			

Extension Cable Outline Diagram

Optional

CF	M12	030
Cable	Model	Length
CF	M12 M12 Female / 10Pin	030 3Meter Cable
		050 5Meter Cable
		100 10Meter Cable
		XXX Custom Length Cable

