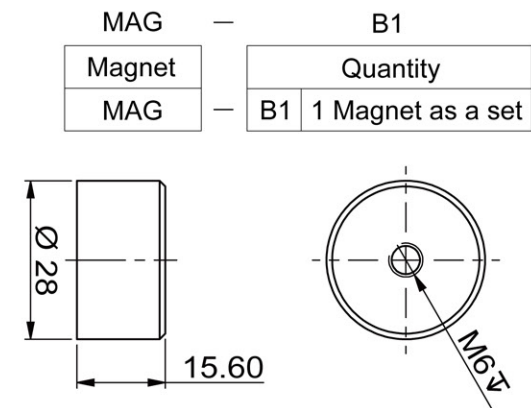


Magnet Outline Diagram

Optional



Size of the magnet : Ø28 (Maximum tightening torque : 6kg)

Magnet assembly diagram



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

KSB-M0 Series

Intelligent Vibration & Temperature Sensor

Ocelot For Plot

Optional



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

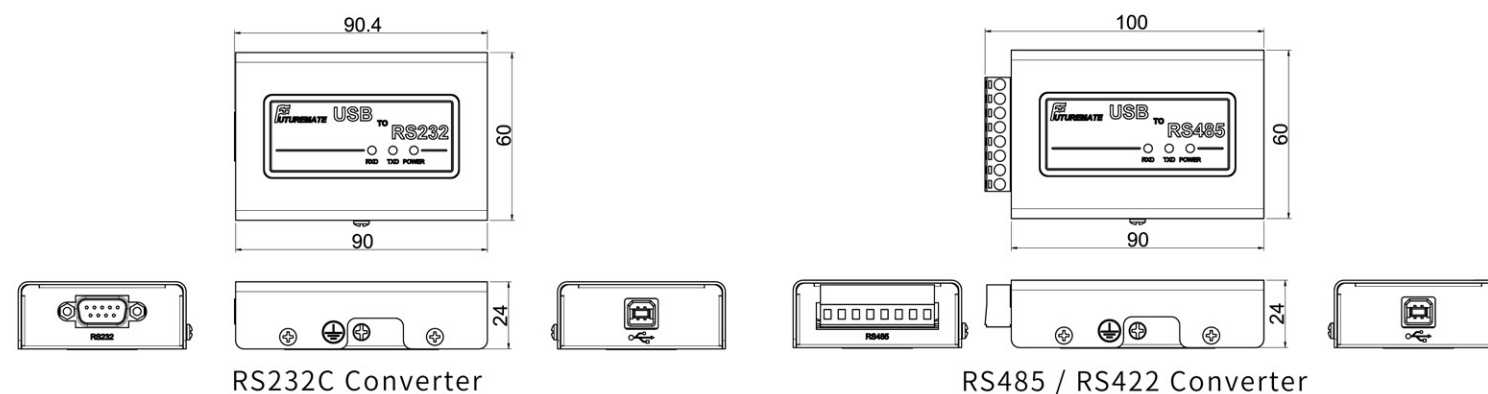
Summary

KSB-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. This sensor majorly applied for detecting and analyzing the abnormal condition to prevent unpredictable event, accident and downtime losses.



USB to RS232C / RS485 / RS422 Converter

Optional



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
- 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



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Ordering Information

KSB		M04		I3		6		08	
Series	Series Number & Communication Protocol			Model & Axis		Bandwidth		Measuring Range	
KSB	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
		M07	RS-232C	I1	1 Axis	A	10kHz	50	±50g
		M08	RS-485 Modbus RTU					100	±100g
		M09	RS-422						

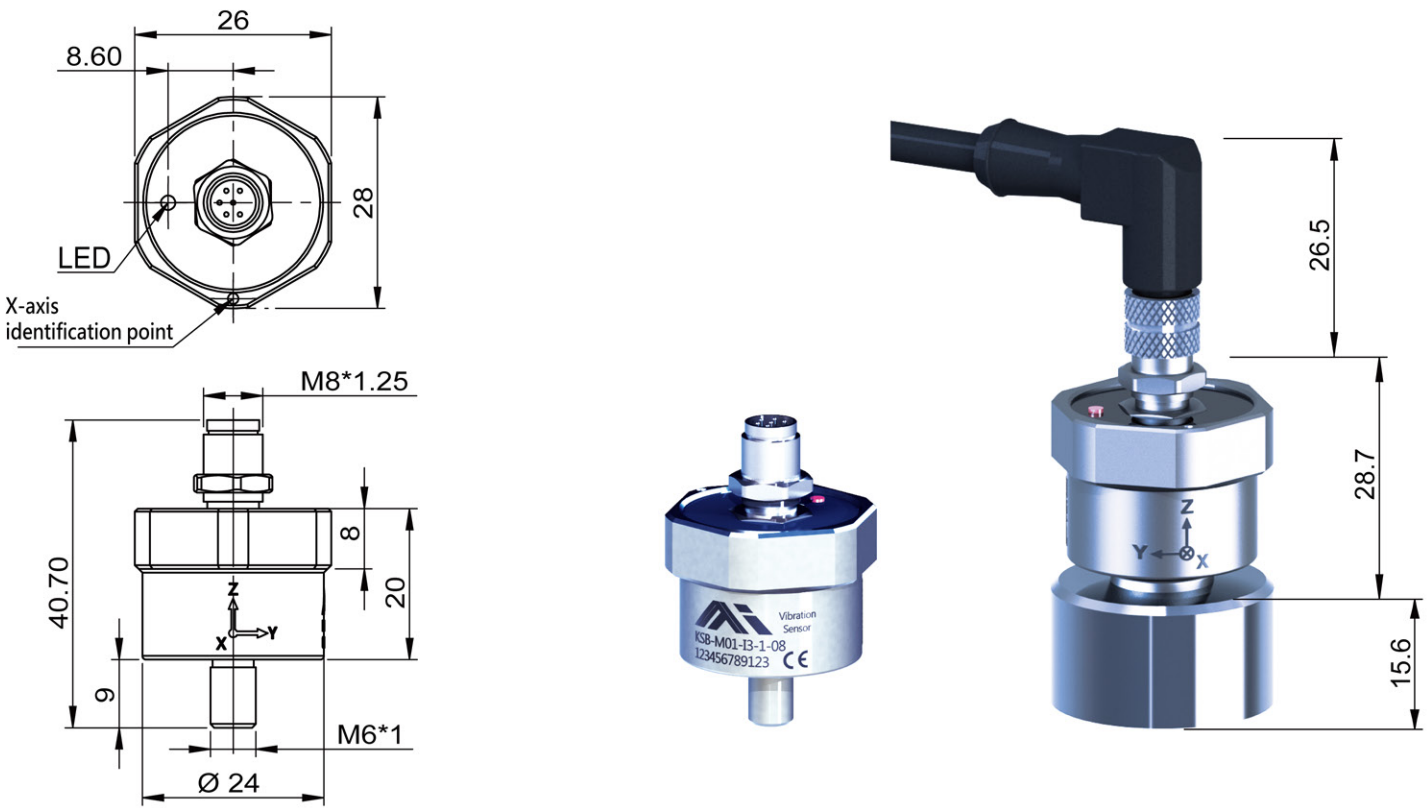
※1 The maximum communication distance of M01/M04/M07 is less than 10 meters

Specification

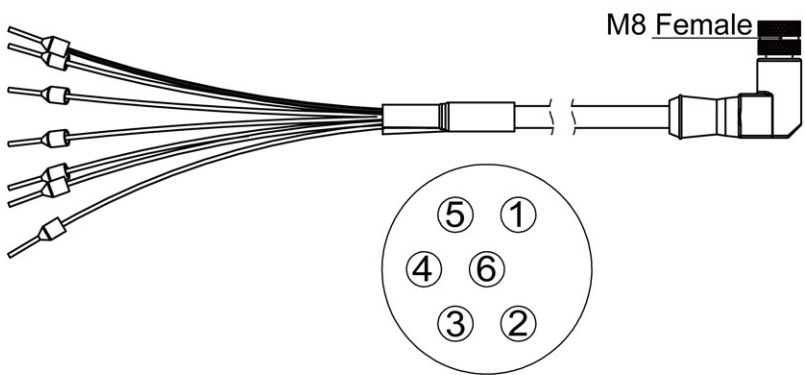
KSB-M
Vibration
Sensor

Measurement Range	M01~03 : ±2g/±4g/±8g/±10g/±20g/±40g M04~06 : ±2g/±4g/±8g/±16g M07~09 : ±50g/±100g
Sensitivity	M01~03 : 3.9@±2g , 7.8@±4g , 15.6@±8g (µg/LSB) 19.5@±10g , 39@±20g , 78@±40g (µg/LSB)
	M04~06 : 0.061@±2g , 0.122@±4g , 0.244@±8g , 0.488@±16g (mg/LSB)
	M07~09 : 40@±50g , 20@±100g (mV/g)
Bandwidth	M01~03 : DC to 1kHz M04~06 : DC to 6kHz , Simulation to 10kHz M07~09 : DC to 10kHz
Measurement Temperature	-10 to +105 °C
Consumption Current @ Operating Voltage	M01~06 : DC 5 to 30V / 10mA @ 24VDC Below M07~09 : DC 10 to 30V / 10mA @ 24VDC Below
Communication Protocol & Baud Rate	RS-232C @921600bps RS-422 @921600bps RS-485 Modbus RTU @115200bps
Data Format	1. Feature 2. Raw Data 3. FFT 4. ISO10816
Data Feature	Mean , Standard Deviation , RMS , Crest Factor , Skewness , Kurtosis , Peak to Peak , Form Factor , Min , Max and Contact Temperature
Installation Method	M6 Screw Fixing / Super Strong Magnets
Maximum Impact	10,000g
Dimension W x D x H	28mm x 26mm x 40.7mm , Without Magnets & Cable
Shell Material	SUS Stainless Steel
Weight	40g ±5%
Working Temperature	-10 ~ +85 °C
Storage Temperature	-20 ~ +100 °C
Working Humidity	0 ~ 95%
Water & Dust Resistance	IP67

Outline Dimension



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	Pink / Black	0V		
6	Pink	+5 ~ 30V		
7	Isolation Net			

Extension Cable Outline Diagram

Optional

CFL	M8		030	
Cable	Model		Length	
CFL	M8	M8 Female / 6Pin	030	3Meter Cable
			050	5Meter Cable
			100	10Meter Cable
			XXX	Custom Length Cable

