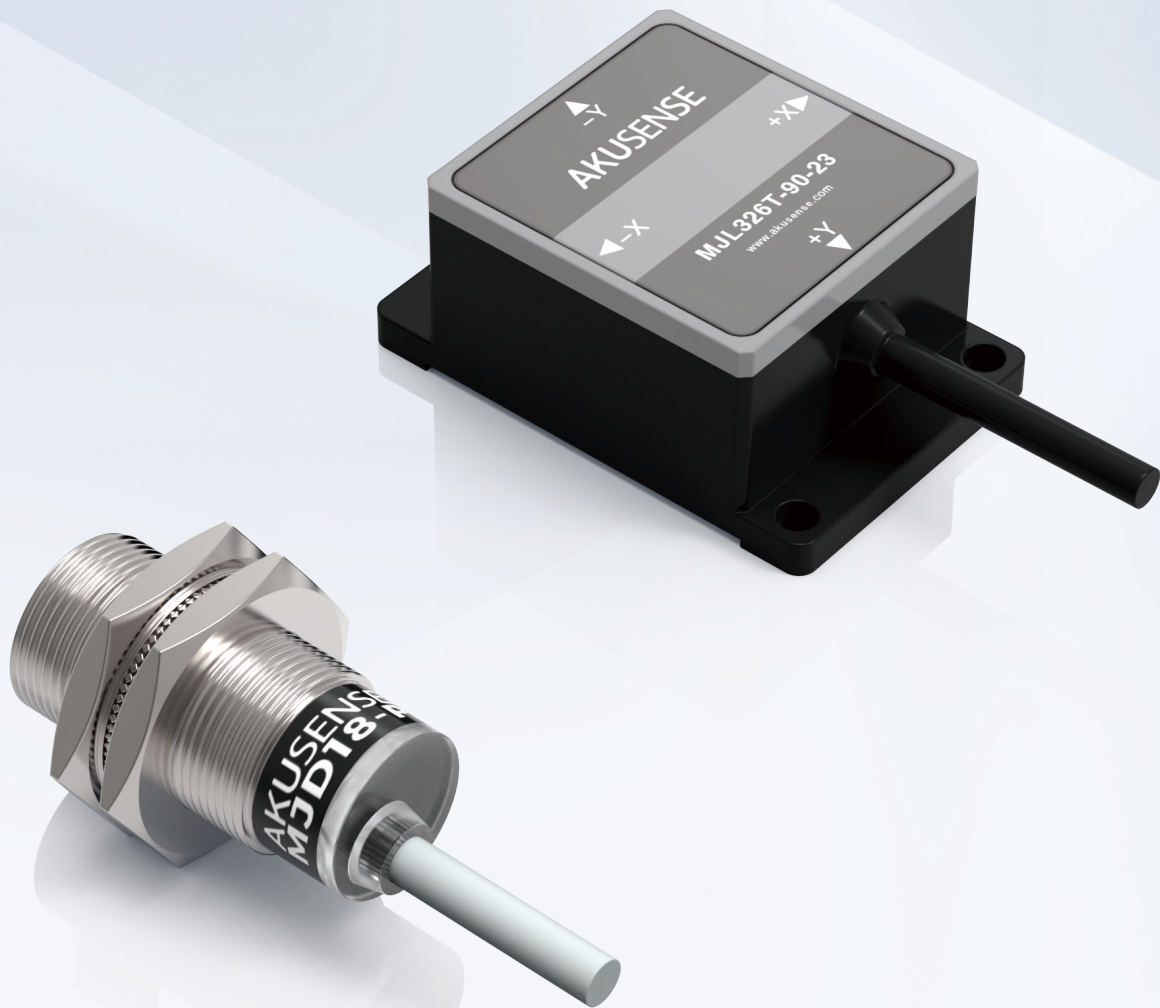


Vibration/Inclinometer Sensor



- Up to 5mg resolution accuracy and 0.5% linearity accuracy for high sensitivity detection.
- Configurable range in real time online

Various installation methods

MJD series equipped with cylindrical thread structure



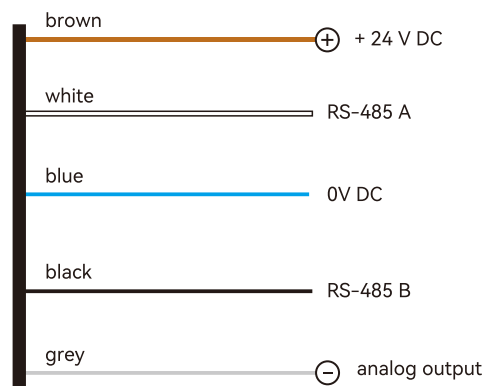
MJD Series



MJL Series

Configure serial ports, analog quantities and IO

MJD series vibration acceleration products are equipped with multiple output modes. Through the debugging software, the voltage and current analog outputs can be easily configured and configured with RS485 and RS232 serial communication outputs.



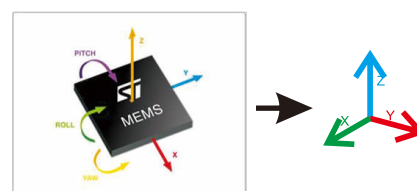
MJD series	Resolution/Range	15.62mg @ ±2g 31.25mg @ ±4g 62.50mg @ ±8g 125mg @ ±16g (Range can be set)
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Excellent measurement accuracy and stability

Up to 5mg resolution accuracy and 0.5% linearity accuracy
 High sensitivity detects whether there is vibration or whether the level of vibration has changed

Realize X, Y, Z three-axis acceleration measurement

MJD series products can realize X,Y,Z measurement and output three-axis acceleration measurement values through the serial port.



MEMS(Microelectromechanical systems)

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration**
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

Vibration

Triaxial Measurement

Inclinometer

Dual axis measurement

Product Highlights

Configure interrupt function

Interrupt signal management via RS485 or analog configuration
 Interrupt analog configuration in three modes (standard, switching, pulse)



Standard

The analog output cannot send any alarms reported, whether the interrupt is available or unavailable through the analog output, it follows the standard trend in speed



Switching

The acceleration exceeds the threshold value and the continuous value, causing an alarm.

The output status is at the most Switch between minimum and maximum values



Pulse

In this mode, the analog output is always at the minimum value.

Each time the threshold and duration are exceeded, the output is switched to the maximum value, remains at the high value for at least 5ms, and then returns to the minimum value.

Mode limits alarm acknowledgment frequency

Application



Industrial Robot



Aerial Work Platform



Logistics Conveyor System



Agricultural Tractors/
Earthmoving Vehicles



Oilfield Pumping Units



Photovoltaic Industry



Medical Instruments



Bridge Crane

Selection guide



Three-axis measurement

- Simultaneous measurement of XYZ three directions
- Supported by RS485 communication.
- 316L stainless steel enclosure

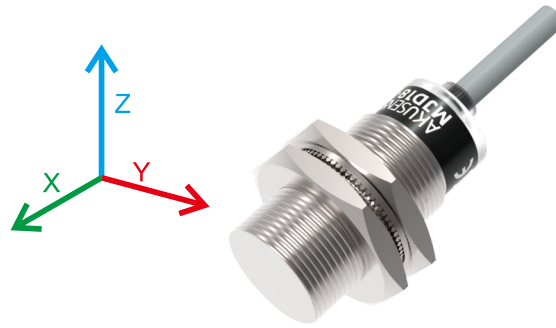
P.M-04



Dual Axis Measurement

- Wide voltage input, 9~36V DC
- Resolution is 0.05°
- Biaxial inclination measurement

P.M-05



Basic Features	working principle	Principle of inertia	
	Enclosure type	Cylindrical	
	Detect range	$\pm 16g$ (MAX)	
	Detect axis	3(X,Y,Z)	
	Resolution	15.62mg@ $\pm 2g$; 31.25mg@ $\pm 4g$; 62.50mg@ $\pm 8g$; 125mg@ $\pm 16g$	
	Technical	MEMS(microelectromechanical system)	
Electrical data	Operating Voltage	24VDC $\pm 20\%$	
	Power consumption	<1W	
	Digital output	RS-485 (addressable) 57600 baud - 1 bit stop - no parity	
	Resolution Digital Output	16 bit@RS-485;12 bit@Analog output	
	Voltage analog output	0~5V/0~10V(programmable)	
	Current analog output	0~5V/0~10V(programmable)	
	Vibration frequency	0~400Hz	
	resistance	Resistance (voltage): 1k~1M Ω ; resistance (current): 100~500 Ω	
protect the circuit	Reverse polarity protection, surge protection		
Environmental conditions	Working temperature	-25 $^{\circ}$ C~+70 $^{\circ}$ C	
	Storage temperature	-30 $^{\circ}$ C~+90 $^{\circ}$ C No condensation	
	Working environment humidity	<80% No condensation	
	Protect degree	IP67	
Mechanical data	Connection method	5 core cable	M12,5PINConnector (20cm lead)
	Dimensions	M18x40.5mm	
	Material	Stainless steel AISI 316L	
	Weight	100g	
	Accessories	Nut	
Model	MJD18-W		MJD18-P

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Guidance

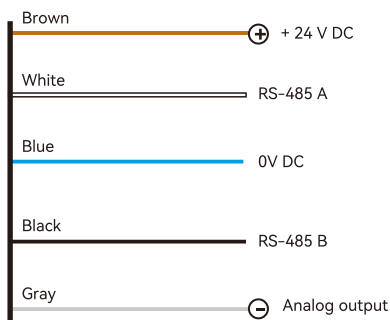
Vibration

Triaxial Measurement

Inclinometer

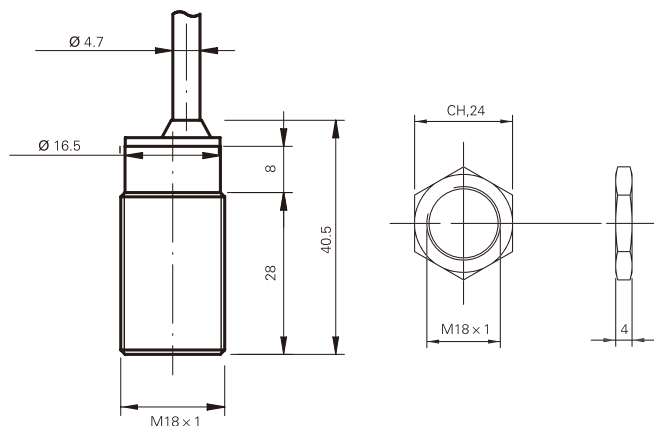
Dual axis measurement

Circuit Diagram



Dimensions

Unit: mm



Dual Axis Measurement

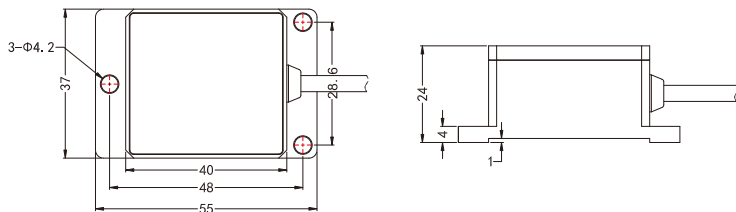
MJL Series



Basic Features	Working principle	Principle of inertia			
	Enclosure type	Square			
	Detection range	± 10°	± 30°	± 60°	± 90°
	Detection axis	X,Y			
	Resolution	0.05°			
	Long-term stability	0.2		0.25	
Electrical data	Absolute precision	0.1°		0.2°	
	Response time	0.02s			
	Power-on startup time	0.5s			
	Operating Voltage	9~36V			
	No load current	40mA			
	Mean time between failures(MTBF)	≥45000h/time			
	Output rate	5Hz、15Hz、35Hz、50Hz Can be set			
	Output signal	RS232/RS485/RS422/TTL/CAN			
	Electromagnetic compatibility	Follow En61000 and GBT17626			
	Insulation resistance	≥100M			
Environmental conditions	Working temperature	-40~+85°C			
	Storage temperature	-55~+100°C			
	Zero temperature drift	±0.01°/°C			
	Sensitivity temperature coefficient	≤150 ppm/°C			
	Vibration Resistance	10grms 10~1000Hz			
	Impact resistance	100g@11ms、Three-axis and Synchronous (Half-Sine Wave)			
	Protect degree	IP67			
Mechanical data	Connection method	M16/5 pin			
	Dimensions	55x37x24mm			
	Material	Stainless steel			
	Weight	90g(Excluding cables)			
	Accessories	Standard 1 meter length, wear-resistant, wide temperature, shielded cable (direct lead)			
Model	4~20mA	MJL326T-10-A1	MJL326T-30-A1	MJL326T-60-A1	MJL326T-90-A1
	0~5V	MJL326T-10-V3	MJL326T-30-V3	MJL326T-60-V3	MJL326T-90-V3
	RS232	MJL326T-10-23	MJL326T-30-23	MJL326T-60-23	MJL326T-90-23
	RS485	MJL326T-10-48	MJL326T-30-48	MJL326T-60-48	MJL326T-90-48

Dimensions

Unit: mm



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

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Contact

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Dual axis measurement