Vibration/Inclinometer Sensor

Triaxial Measurement

- Simultaneous measurement of XYZ in three directions
- Support 485 communication
- 316L stainless steel housing

P.M-02

Multi-range

- Strong structure, low power consumption, excellent deviation stability
- Voltage / current / digital RS232 / 485 / TTL output optional
- ± 2/4/8/10/16/20/30 / 50g measurement range optional

P.M-03

Dual Axis Measurement

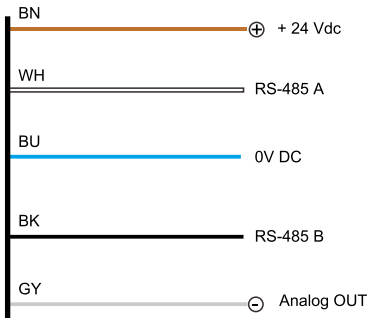
- Wide voltage input，9~36V DC
- Resolution is 0.05°
- Biaxial inclination measurement

P.M-04

MJD18 Series

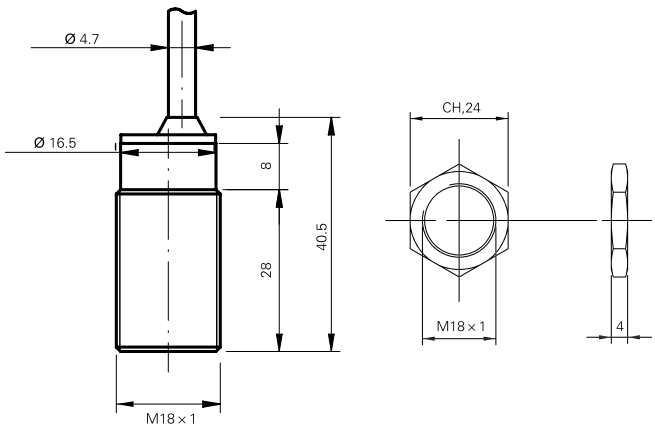
Appearance		
Operating voltage	24V DC ±20%	
Power consumption	<1W	
Operating range	±16(MAX)	
Resolution/Range	15.62mg @ ±2g 31.25mg @ ±4g 62.50mg @ ±8g 125mg @ ±16g (Rang can be set)	
Detection axis	3（X, Y, Z）	
Frequency range	0~400HZ	
Technology	MEMS (Micro Electro-Mechanical Systems)	
Digital output	RS-485 (addressable) 57600 Baud rate-1 bit stop-parity	
Resolution digital output	16 bit@RS-485 12 bit@ analogue output	
Voltage analogue output	0.5V/0~10V (programmable)	
Current analogue output	4.20mA/0.20mA/0~24mA (programmable)	
Load resistor (voltage)	1k~1M Ω	
Load resistor (current)	100~500 Ohm	
Ambient Humidity	<80%RH, No condensation	
Operating temperature	-25℃~+70℃	
Storage temperature	-30℃~+90℃, No freezing	
Circuit protection	Reverse polarity, Surge protection	
Degree of protection	IP67（EN60529）	
Housing material	AISI316L Pa12	
Connections	5-core cable	M12,5 Pin connector (20cm lead)
Size	M18	
Weight	100g	
Model No.	**MJD18-W**	**MJD18-P**

Wiring diagram



Dimensions

Unit: mm



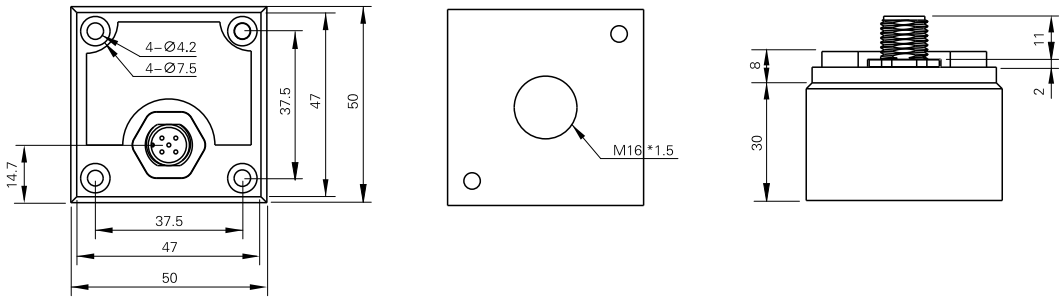
Multi-range

MJA Series

Appearance	
Measuring range	±2/4/8/10/16/20/30/50G
Deviation calibration	＜5mg
48h deviation stability	＜2mg（Typical value）
Measuring axis	X,Y,Z
Annual deviation stability	7.5Mg Typical value（＜25）
power on/off repeatability	＜10mg（MAX）
Deviation temp. coefficient	0.5mg/℃ Typical value ±2mg/℃ MAX
Annual scale factor stability	300（＜1000）ppm Typical value
Resolution/threshold(@1Hz)	＜5mg(MAX)
Nonlinear	＜0.5%FS(MAX) ＜0.09g(MAX)
Bandwidth(4)	1~≥400Hz
Resonance frequency	6.7kHz
Output resistance/load	Min 10KΩ，as Vout(Pin 32)& VAGND (Pin 38)max 50pF,as Vout (pin 32);& max 100F,as VAGND (pin 38)
Shock(g)	20g rms,20~2000Hz(Random noise, o, p, l each shaft effect 30min)
Reliability	MIL-HDBK-217,Grade two
Operating current consumption	＜3mA@12V DC
Scale factor temp. coefficient	100ppm/℃（Typical value） -50/250（Min/Max value）
Impact resistant	100g@11ms,Times/Axis(half sinusoid)
Recovery time	＜1ms（1000g,1/2 sin 1ms,impact in/shaft）
Output current consumption	4~20mA@12V DC input voltage（%FS）
Operating temperature	-40℃~+85℃
Output rate	5Hz, 15Hz, 35Hz, 50Hz, 100Hz can be set
Output signal	Voltage / current /RS232/RS485/TTL
Output voltage range	0~5V DC@12V DC
LCC sealed	Meet MIL-STD-833-E
Input(VDD-CSS)	9~36V DC
Weight	100g
Dimension	L50*W50*H38mm
Model No.	**MJA39□B-□□** Output signal 0: Voltage 8: Current 2: RS232 4: RS485 T: TTL Level Measurement range 02: ±2G 04: ±4G

Dimensions

unit: mm



MJL Series

Appearance				
Measuring range	±10°	±30°	±60°	±90°
Measuring axis	X,Y	X,Y	X,Y	X,Y
Resolution	0.05°	0.05°	0.05°	0.05°
Absolute precision	0.1°	0.1°	0.2°	0.2°
Long-term stability	0.2	0.2	0.25	0.25
Zero temperature drift(-40~85℃)	±0.01° /℃	±0.01° /℃	±0.01° /℃	±0.01° /℃
Sensitivity temperature coefficient(-40~85℃)	⩽150 ppm/℃	150 ppm/℃	⩽150 ppm/℃	⩽150 ppm/℃
Power-on startup time	0.5S	0.5S	0.5S	0.5S
Response time	0.02S	0.02S	0.02S	0.02S
Operating voltage	9~36V			
No load current	40mA			
Operating temperature	−40~+85℃			
Storage temperature	−55~+100℃			
Vibration resistance	10grms 10~1000Hz			
Insulation resistance	⩾100M			
Degree of protection	IP67			
Mean time between failures(MTBF)	⩾45000Hour/time			
Output rate	5Hz, 15Hz, 35Hz, 50Hz Can be set			
Electromagnetic compatibility	According to En61000 and GBT17626			
Weight	90g (without cable)			
Impact resistance	100g@11ms, Triaxial and identical(Half sine wave)			
Output signal	RS232/RS485/RS422/TTL/CAN			
Cable	1M standard wear resistant, wide temperature, shielded cable (direct lead)			
Model No. 4~20mA	**MJL326T-10-A1**	**MJL326T-30-A1**	**MJL326T-60-A1**	**MJL326T-90-A1**
0~10V	**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