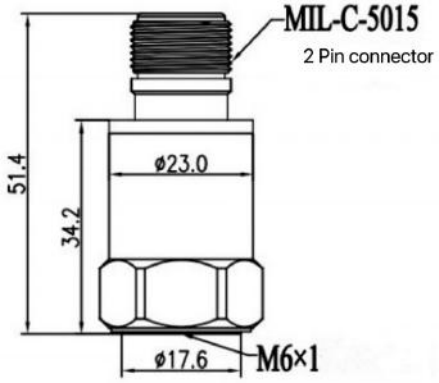
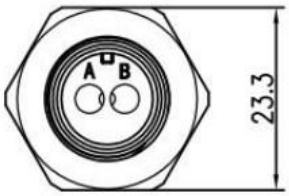
RH113 (T) Accelerometer

Product Overview

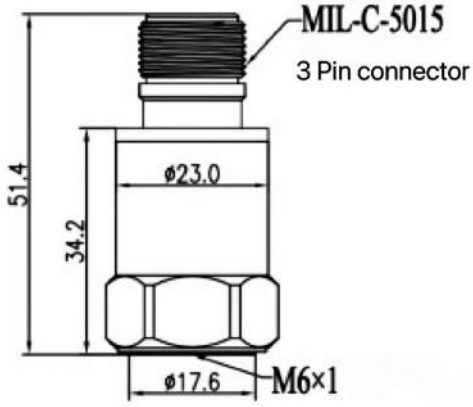
- Built-in IEPE circuit, isolation output, constant current source power supply
- Laser seal welded
- Using military connector, can be used for on-line monitoring in harsh industrial site
- Low frequency, high sensitivity.

Product Picture and Dimension





Connector	
Pin	Name
A	Vibration signal/Power
B	GND



Connector	
Pin	Name
A	Vibration signal/Power
B	Temperature
C	GND

RH113 (T) Accelerometer

Main Parameters

Parameters	Specification	Remark
Physical		
Dimension	RH113: 23mm×51.4mm RH113T: 23mm×51.4mm	Diameter × Height
Weight	RH113: 90g RH113T: 90g	
Mounting Thread	M6× 1	
Seal Method	Laser welding	
Casting Material	316L Stainless Steel	
Output	RH113: Top Output, 2-Pin MIL-C-5015 RH113T: Top Output, 3-Pin MIL-C-5015	
Ambient Temperature	-55℃ to +125℃	
Mounting Torque	About 2.7N.m to 6.8N.m (M6 thread)	
Protection Grade	IP68	
Maximal Shock Level	5000g	
Basic		
Sensitivity	500mv/g (±10%)	
Range	±10g peak	
Amplitude Linearity	≤1%	
Frequency Response (±10%)	0.2Hz to 5kHz	
Frequency Response(±3 dB)	0.1Hz to 10kHz	
Resonance Frequency	About 20 kHz	
Transverse Sensitivity	≤5%	
Temperature Measuring Range	-40℃ to 120℃	The temperature measurement function is an optional function, corresponding to the RH113T model
Temperature Sensitivity	10mv/℃	
Temperature Voltage Output	70mv (25℃)	

RH113 (T) Accelerometer

Main Parameters

Parameters	Specification	Remark
Electrical		
Bias Voltage	10.5VDC to 13.5VDC typical: 12VDC	
Constant Current	2mA to 20mA typical: 4mA	
Excitation Voltage	18VDC to 30VDC typical: 24VDC	
Settling Time	≤ 3 S	
Electrical Noise Power Spectral Density	10Hz 14μg/√Hz 100Hz 5μg/√Hz 1000Hz 3μg/√Hz	
Output Impedance	<100Ω	
Grounding	Housing isolated, internal shielded	
Others		
Certification	CE	
Identification	Ex ia IICT4 Ga EX ia IIIC T_{200} 135℃ Da	(Optional model for explosion proof area, corresponding to the EX RH113T model)