Uniaxial Accelerometer ACC 1821-SxLx Series

Version: 1.2_20230925_EN

The ICP (or IEPE) piezoelectric acceleration sensor comes with a built-in charge amplifier.

The power supply and signal output share a common cable, commonly known as the two wire method, which uses a coaxial cable to supply a constant current power supply of 2-10mA to the sensor, and the output signal is also output by this coaxial cable, commonly known internationally as the ICP method.

AAC 1821 is often matched with built-in IEPE acquisition cards such as MegaSig PM 6143 to achieve excellent testing results.

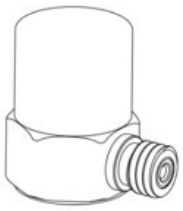
Feature

- Overall welding
- High stability

Specification

ACC 1821-SxLx							
Sensitivity Class	S1	S2	S3	S4	S5	S6	S7
Sensitivity	1mV/g (±20%)	5mV/g (±20%)	10mV/g (±20%)	50mV/g (±20%)	100mV/g (±20%)	200mV/g (±20%)	500mV/g (±20%)
Range	5000g	1000g	500g	100g	50g	25g	10g
Frequency Response 0.5dB	1Hz~15kHz	1Hz~10kHz	1Hz~8kHz	1Hz~7kHz	1Hz~6kHz	0.5Hz~5kHz	0.5Hz~2.5kHz
Weight	5.5g	5.5g	5.5g	5.5g	5.5g	5.5g	5.5g
Resonant Frequency	40kHz	40kHz	40kHz	40kHz	40kHz	25kHz	8kHz
Impact Resistance	10kg	10kg	3kg	2kg	2kg	2kg	1kg
Maximum Lateral Sensitivity	≤5%	≤5%	≤5%	≤5%	≤5%	≤5%	≤5%
Working Voltage	+12～+28V	+12～+28V	+12～+28V	+12～+28V	+12～+28V	+12～+28V	+12～+28V

Working Current	+2～+10 mA (Typical 4 mA)	+2～+10 mA (Typical4 mA)	+2～+10 mA (Typical4 mA)	+2～+10 mA (Typical4 mA)	+2～+10 mA (Typical4 mA)	+2～+10 mA (Typical4 mA)	+2～+10 mA (Typical4 mA)
Operation temperature	-40~+120℃	-40~+120℃	-40~+120℃	-40~+120℃	-40~+120℃	-40~+120℃	-40~+120℃
Output Peak	≤6V	≤6V	≤6V	≤6V	≤6V	≤6V	≤6V
Noise （1~20KHz）	＜0.5mg	＜0.5mg	＜0.5mg	＜0.5mg	＜0.5mg	＜0.3mg	＜0.1mg
Base Strain	0.2mg/με	0.2mg/με	0.2mg/με	0.2mg/με	0.2mg/με	0.2mg/με	0.2mg/με
Magnetic Sensitivity	1.5g/T	1.5g/T	1.5g/T	1.5g/T	1.5g/T	1.5g/T	1.5g/T
Output Impedance	＜100 Ω	＜100 Ω	＜100 Ω	＜100 Ω	＜100 Ω	＜100 Ω	＜100 Ω
Main material	Titanium Alloy	Titanium Alloy	Titanium Alloy	Titanium Alloy	Titanium Alloy	Titanium Alloy	Titanium Alloy

Appearance	L1 (side outlet L5, internal thread M5 fixed)	L2 (top outlet L5, internal thread M5 fixed)
Reference Picture		

Model

ACC 1821-Sx Lx

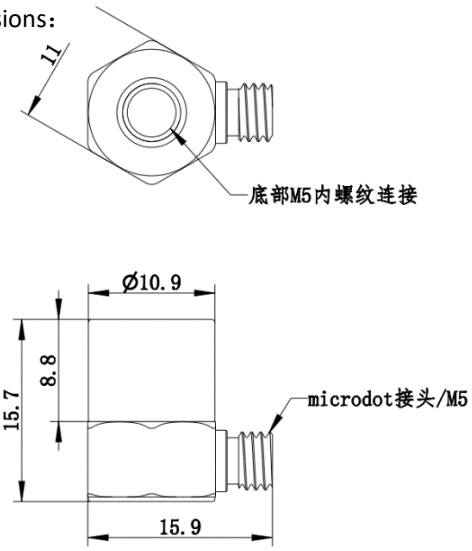
The suffix "Lx" represents accelerometer with different appearance forms

The suffix "Sx" represents accelerometer with different sensitivities

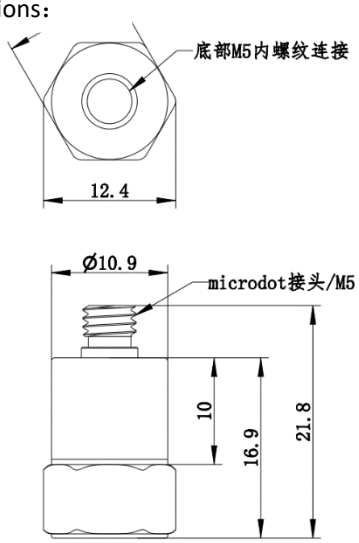
The main models of this series of accelerometers

For example, the accelerometer with the model name "ACC 1821-S3L1" corresponds to the specifications of the ACC 1821 series accelerometer, with a sensitivity of 10mv/g and an appearance of L1 (with side outlet and internal thread M5 fixed) .

L1 Overall dimensions：



L2Overall dimensions：



MegaSig reserves the right to change specifications and accessories without notice.

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