

MEMS Test and Measurement Sensors

- ◇ Wide bandwidth, Ultra-low frequency
- ◇ Small volume, Lightweight
- ◇ Universal applies to many occasions
- ◇ Excellent Long-term Stability
- ◇ Low noise
- ◇ With a wide supply voltage range



BS-AO19

Triaxial Accelerometers

Parameter	Unit	-30	-50	-100	-200	-500
Range	g	±10	±30	±50	±100	±200
Bandwidth(±5%)	Hz	0-1000	0-1500	0-1500	0-2000	0-2000
Bandwidth(±3dB)	Hz	0-2000	0-3000	0-5000	0-6000	0-10000
Resonant Frequency	kHz	2.7	5.5	5.5	9.8	18.0
Zero Output	V	2.5±0.1	2.5±0.1	2.5±0.1	2.5±0.1	2.5±0.1
Noise Density(Typ.)	µV/√Hz	10	10	10	10	10
Sensitivity@160Hz	mV/g	200±10	66.7±3	40±2	20±1	10±1
Transverse Sensitivity	%	≤3	≤3	≤3	≤3	≤3
Resolution(Typ.)	mg	0.3	1	2.5	5	20
Non-linearity	% FS	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Thermal Zero Shift	% FS /°C	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01
Thermal Sensitivity Shift	%/°C	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02
Operating Temp.	°C	-45~+85				
Storing Temp.	°C	-55~+125				
Shock (halfsine)	g	10000				
Vibration (sine, random vibration)	/	100g pk, 20~2000 Hz / 40g rms, 20~2000 Hz				
Packaging	/	Alluminum Alloy				
Supply Voltage	V	+7~+36				
Supply Current	mA	≤25				
Output Voltage	V	(0.5±0.1) ~ (4.5±0.1)				
Insulated Resistance	MΩ	>100 (@100VDC)				
Output Impedance	Ω	≤100				
Weight	g	≤15 grams (cable weight 18g/m)				
Size	mm	22 mm×22 mm×13 mm				
Mounting Type	/	2*Φ5.3 Mounting Hole				
Connector	/	6 core shielded cable				

All values are typical at +25°C, +12±1V unless otherwise statement.

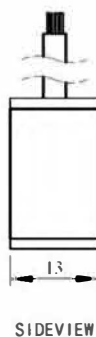
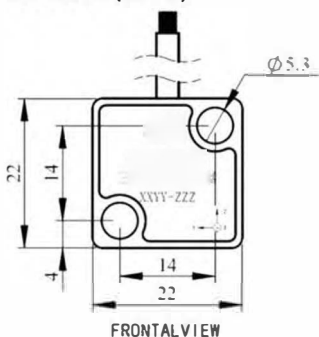
◇ Applications

Aviation & Aerospace
Civil Engineering Structures

Helicopter & Aircraft Testing (HUMS)
Railway Technology

Structuring Vibration Test & Modal Analysis
Industrial Testing

◇ Structure (unit:mm)



Red	VCC	+PWR
Black	GND	Ground
Green	Xout	X axis output
Yellow	Yout	Y axis Output
White	Zout	Z axis Output
Brown	NC	Blank