

MEMS Test and Measurement Sensors

BLITZ Sensor

- ◇ 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-AO20

Triaxial Accelerometers

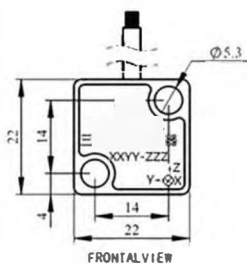
Parameter	Unit		-30	-50	-100	-200	-500	-1000	-5000	-10000
Range	g	±10	±30	±50	±100	±200	±500	±1000	±5000	±10000
Bandwidth(±5%)	Hz	20~1000	20~1500	20~1500	20~2000	20~2000	20~3000	20~3000	20~3000	20~3000
Bandwidth(±3dB)	Hz	10~2000	10~3000	10~5000	10~6000	10~7000	10~10000	10~10000	10~10000	10~10000
Resonant Frequency	kHz	2.7	5.5	5.5	9.8	9.8	18.8	20.0	20.0	20.0
Zero Output	V	2.5±0.1	2.5±0.1	2.5±0.1	2.5±0.1	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	10	10	10	10
Sensitivity@160Hz	mV/g	200±10	66.7±3	40±2	20±1	10±1	4±0.4	2±0.2	0.4±0.04	0.2±0.02
Transverse Sensitivity	%	≤3	≤3	≤3	≤3	≤3	≤3	≤3	≤3	≤3
Non-linearity	% FS	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤1	≤1	≤2	≤4
Thermal Zero Shift	% FS /°C	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005
Thermal Sensivity Shift	%/°C	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02
Operating Temp.	°C	-45~+85								
Storaging Temp.	°C	-55~+125								
Shock (half-sine)	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 output
Yellow	YOUT	Y output
White	NC	Blank

Definition