

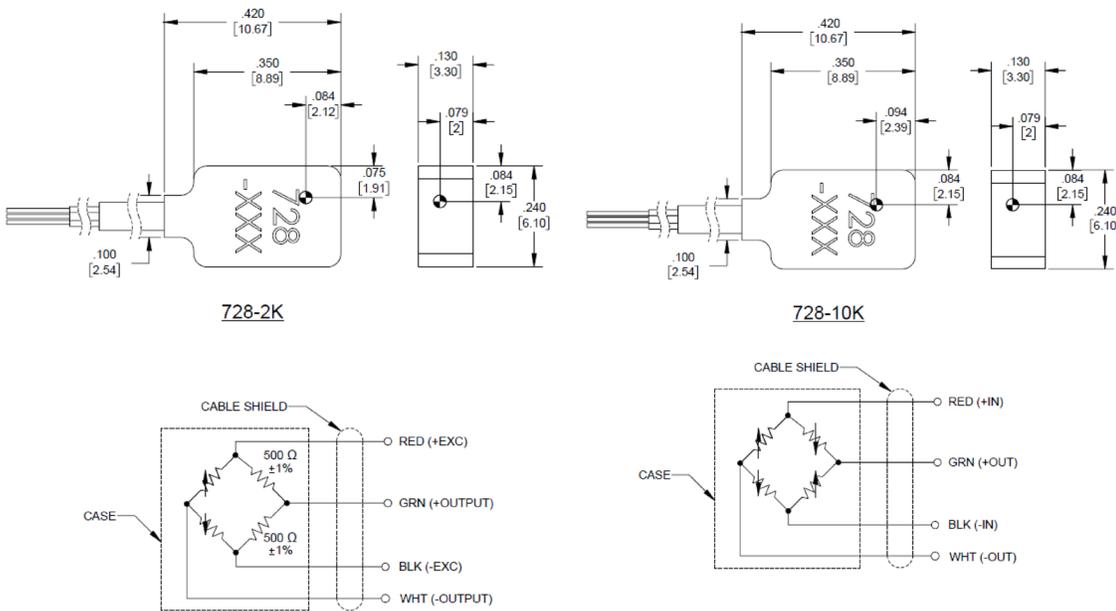
Piezoresistive accelerometer

Model 728



Key features

- 2000 and 10,000 g full scale ranges
- Lightweight 0.5 grams
- DC response
- Gas damped
- Adhesive mount



The ENDEVCO® Model 728 is a rugged damped piezoresistive accelerometer designed for shock measurements in mobile consumer electronic devices and other shock measurements requiring a lightweight, adhesive mount accelerometer. The highly efficient sensing system of the 728 is sculptured from a single chip of silicon. Weighing in at 0.5 grams, the extremely small size and unique construction of the element allows exceptionally high resonant frequency. On-chip balance resistors provide low zero measured output and low thermal zero drift. The lightweight Model 728 is designed to be adhesively mounted to the test article with minimal mass loading.

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Specifications

All specifications assume +75°F (+24°C) and 10 Vdc excitation, unless otherwise specified. Calibration data, traceable to the National Institute of Standards and Technology (NIST), are supplied.

Dynamic characteristics	Units	2K	10K
Range	g	2000	10000
Sensitivity			
Typical	μV/g	200	16
Minimum	μV/g	140	8
ZMO	mV	±50	± 50
Frequency response ±1 dB	Hz	0 to 8000	0 to 8000
Non-linearity	%	1	1
Thermal zero shift			
0°C to +70°C (+32° to +158°F)	mV	15	5
Thermal sensitivity shift			
0° to +70°C (+32° to +158°F)	%/°C	0.2	0.2
	%/°F	0.1	0.1
Transverse sensitivity	%	3	3
Electrical characteristics			
Resistance			
Input, minimum	Ω	700	4000
Output, maximum	Ω	3000	9000
Excitation voltage	Vdc	2 to 12 (10 V standard)	
Isolation resistance	mΩ	100 to 50 Vdc	
Environmental characteristics			
Shock limit	g	10,000	30,000
Temperature range			
Operating		0°C to +70°C (32°F to +158°F)	
Storage		-40°C to +85°C (-40°F to +185°F)	
Humidity		IP67	
Physical characteristics			
Weight	gram	0.5	
Case material		Hard anodized aluminum alloy	
Cable		4 conductor 32 AWG PVC insulated leads, shielded with black PVC jacket	
Calibration data			
Sensitivity	g	Measured at 1000 g for 2K; at 5000 g for 10K	
ZMO	mV		
Input resistance	Ω		
Output resistance	Ω		

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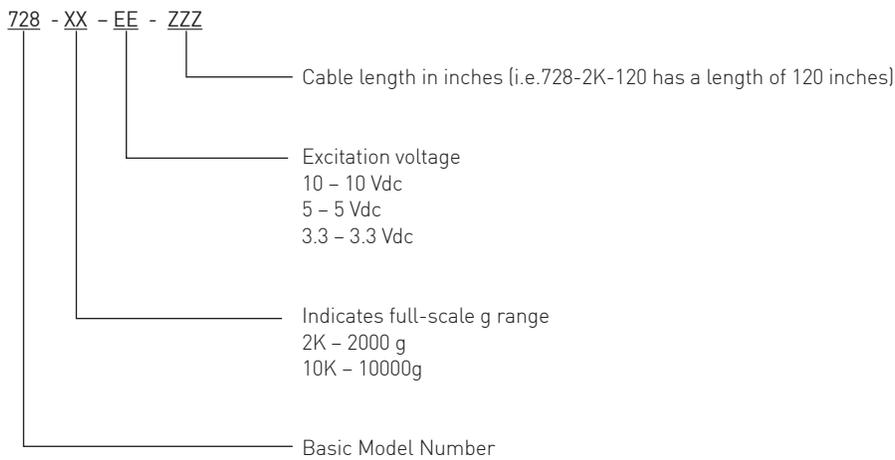
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Notes

- Maintain high levels of precision and accuracy using Endeveco's factory calibration services. Call Endeveco's inside sales force at 866-ENDEVCO for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.

Ordering Information

- Model number definition:



Contact

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