

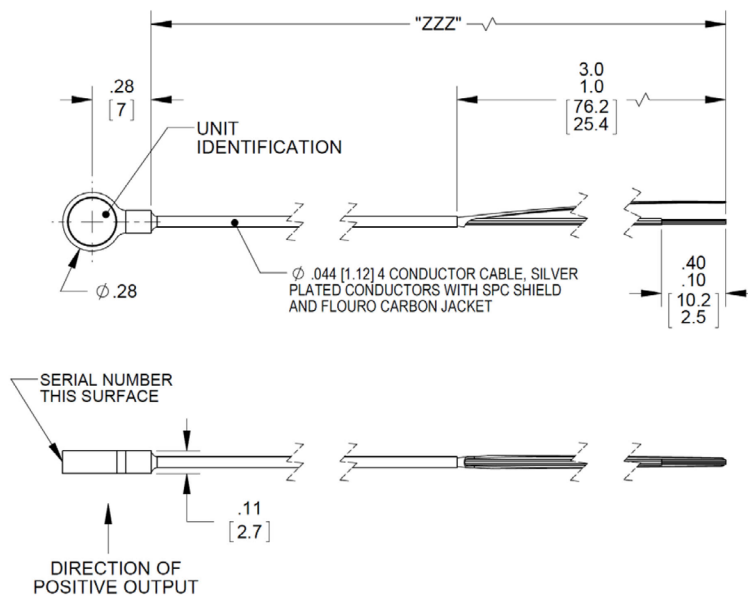
Piezoresistive accelerometer

Model 727

Key features

- Lightweight 0.3 grams
- Exceptional frequency response
- Adhesive mount
- 10 feet of integral cable

The 727 is an extremely lightweight piezoresistive accelerometer designed to measure shock during the drop testing of consumer electronic devices. Available in 2kg, 6kg, 20kg and 60kg ranges, the 727 can measure shocks in g ranges well above current drop test sensors. It is designed to be mounted with adhesive, and at only 0.3 grams for the accelerometer body and 1.1 grams per foot for the cable, mass loading to the test object is minimal. The 727 has exceptional frequency response, from DC-10kHz for 2kg range up to DC-100kHz for the 60kg range, to capture the entire frequency range of interest. The standard unit comes with an A2LA certified calibration taken at 10 volts and 120 inches of integral cable.



Piezoresistive accelerometer

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Specifications

All specifications assume +75°F (+24°C). Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.

Dynamic characteristics	Units	2K	6K	20K	60K
Range	g	2000	6000	20 000	60 000
Sensitivity					
Typical	μV/V/g	10	3	1	0.3
Minimum	μV/V/g	5	1.5	0.5	0.15
ZMO	mV/V	10	10	10	10
Resistance	Ω	650 ± 300	650 ± 300	650 ± 300	650 ± 300
Frequency Response	kHz	10	20	50	100
Over range	g	3000	9000	30 000	90 000

Electrical characteristics

Voltage supply	Vdc	2 to 12 (10 V standard)
Isolation resistance	mΩ	100 to 50 Vdc

Environmental characteristics

Temperature range		
Operating		32°F to +158°F (0°C to +70°C)
Storage		-40°F to +185°F (-40°C to +85°C)

Physical characteristics

Weight	gram (oz)	0.3 (0.01)
Case material		AL 6061-T6, hard anodized
Cable		36 AWG SPC, braided shield, FEP jacket [10 ft length standard]
Cable weight	oz/ft	0.04

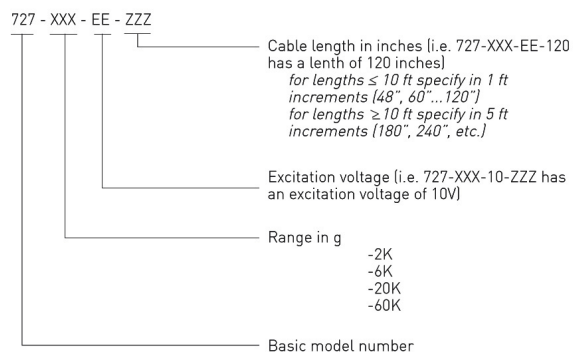
Please refer to IM727 for mounting and de-mounting instructions.

Accessories

Product	Description	727
42894	Removal tool	Included
31849	Mounting kit	Optional
126	Signal conditioner	Optional
136	DC differential voltage amplifier	Optional
436	Signal conditioner	Optional



Model number definition



Continued product improvement necessitates that Meggitt reserve the right to modify these specifications without notice. Meggitt maintains a program of constant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. These measures, together with conservative specifications have made the name Endevco synonymous with reliability. 060513

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