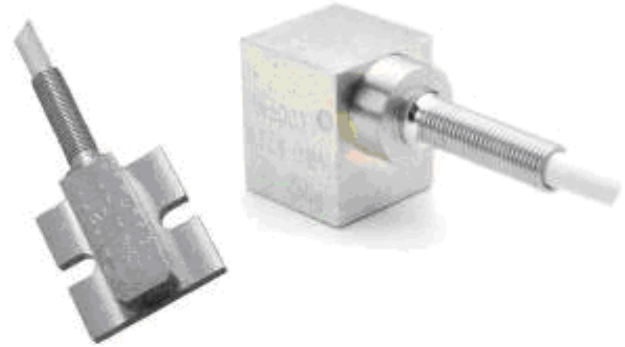


Model EGCS-D0/D1S Accelerometer

Rugged Design
DC Response
10,000 g Overrange Stops
Broad Temperature Range



The Model EGCS-D0/D1S accelerometer combines a damping ratio of 0.7 (Nominal) with built-in overrange stops that are set to protect the unit against 10,000 g shocks. This is ideal for applications which may experience rough handling or in situations where the accelerometer must survive a high initial overload in order to make a low g measurement. These units feature a Wheatstone Bridge output with compensated temperature range of 20 to 80 °C.

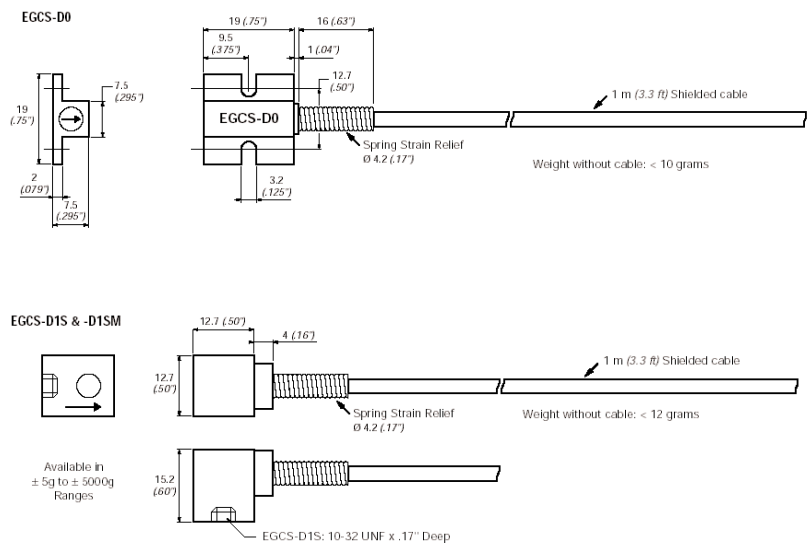
FEATURES

- Compact
- Heavy Duty
- Static and Dynamic Measurement
- Frequency Response through 4000 Hz
- ±1% Non-Linearity
- -40 °C to +120 °C Operating Temperature Range
- 10,000g Overrange Protection

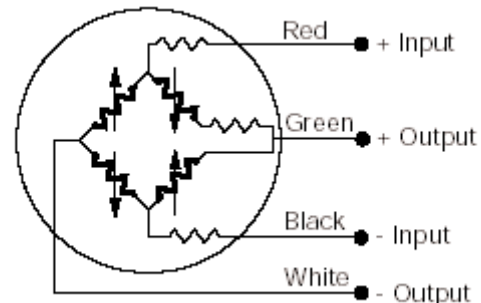
APPLICATIONS

- General Purpose
- Machine Control
- Inspection
- Engine Testing

dimensions



Dimensions in mm (inch)



Model EGCS-D0/D1S Accelerometer

performance specifications

All values are typical at 24 °C and at 15 Vdc excitation unless otherwise stated. Measurement Specialties, Inc. reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

PARAMETERS

DYNAMIC

Range (g)	5	10	25	50	100	250	500	1000	2500	5000
Sensitivity (mV/g)	30	20	8	4	2	0.8	0.4	0.2	0.08	0.04
Frequency Response (Hz)	0-150	0-200	0-400	0-600	0-900	0-1300	0-1750	0-2500	0-3500	0-4000

Resonance (Hz)	300	400	800	1200	1800	2600	3500	5000	7000	8000
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Non-Linearity (%)	±1									
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Transverse Sensitivity (% MAX)	2									
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Zero Acceleration Output (±mV)	15									
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Thermal Zero Shift(50°C/100°F)	±2.0mV/±2.0mV									
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Thermal Sensitivity Shift (50°C/100°F)	±2.5%/±2.5%									
--	-------------	--	--	--	--	--	--	--	--	--

Damping Ratio (Nominal)	0.7									
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ELECTRICAL

Voltage Excitation (Vdc)	15									
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Input Resistance (Ohms)	2K									
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Output Resistance (Ohms)	1K									
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Cable Output Connections	Red	+EXC								
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	Black	-EXC								
--	-------	------	--	--	--	--	--	--	--	--

	Green	+OUT								
--	-------	------	--	--	--	--	--	--	--	--

	White	-OUT								
--	-------	------	--	--	--	--	--	--	--	--

PHYSICAL

Case Material	Stainless Steel									
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Cable Connections (meter/feet)	1 / 3.3									
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Weight (DO/D1S)	10 / 12 grams									
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Mounting (DO/D1S)	Screw/Stud									
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ENVIRONMENTAL

Shock Limit Sensitive Axis (g)	500	1000	2000	5000	10000	10000	10000	10000	10000	10000
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Operating Temperature (°C)	-40 to 120									
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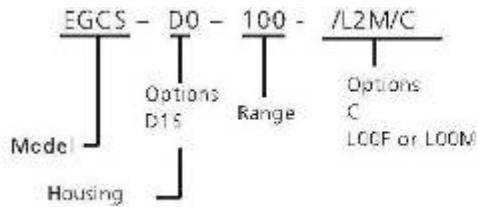
Compensated Temperature (°C)	20 to 80									
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Model EGCS-D0/D1S Accelerometer

performance specifications

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ordering info



COMPENSATED TEMPERATURE RANGES:	STANDARD	= 20°C to 80°C (70°F to 170°F)
	Z*	= Non standard, contact factory
EXCITATION VOLTAGE:	STANDARD	= 15VDC
SPECIAL CABLE LENGTH:	LOOF	= Replace '100' with total length in feet.
	LOOM	= Replace '100' with total length in meters.
CONNECTOR WIRED TO CABLE:	C	= Microtech type male or equivalent.