

Model EGCS-D0/D1S Accelerometer

Rugged Design

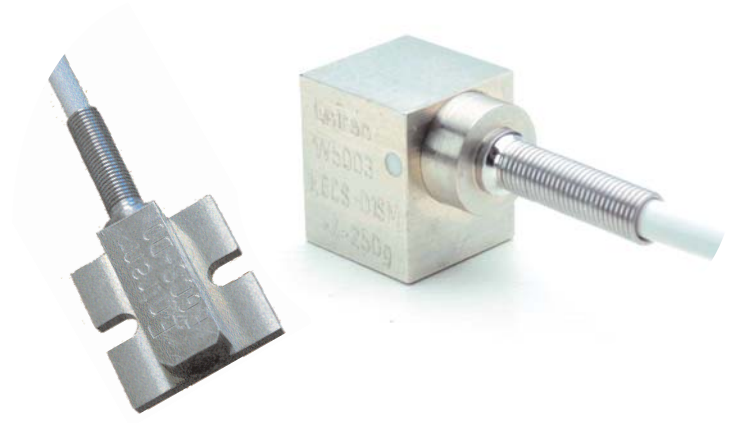
DC Response

10,000 g Overrange Stops

Broad Temperature Range

DESCRIPTION

The Model EGCS accelerometers combine 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.



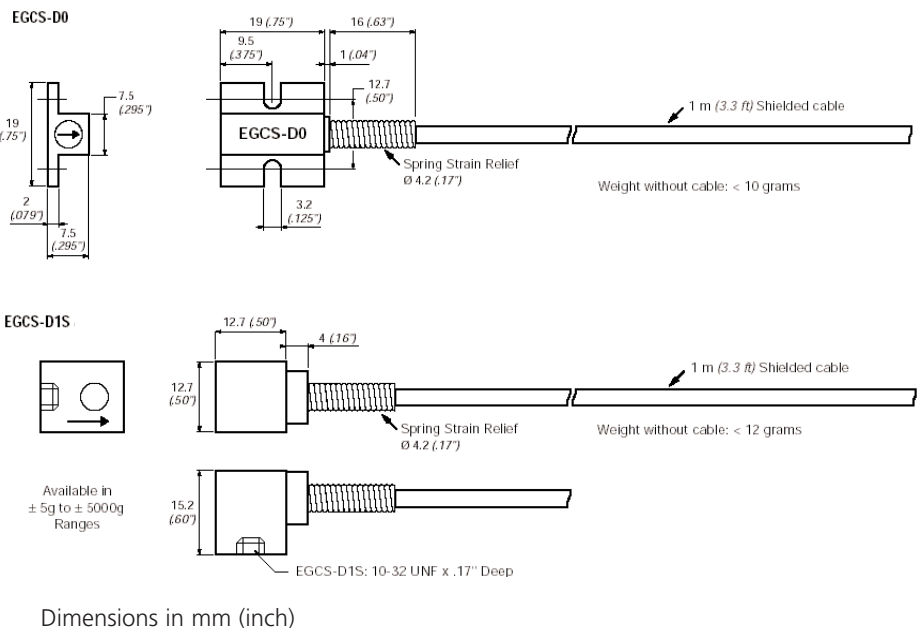
FEATURES

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

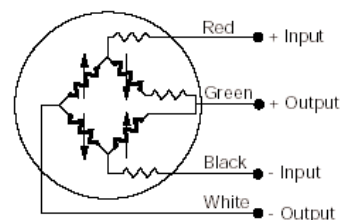
APPLICATIONS

- ◆ General Purpose
- ◆ Machine Control
- ◆ Inspection
- ◆ Engine Testing

dimensions



wiring



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measurement
 SPECIALTIES

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.

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
Non-Linearity (%)	±1									
Transverse Sensitivity (% MAX)	2									
Zero Acceleration Output (±mV)	15									
Thermal Zero Shift(50°C/100°F)	±2.0mV/±2.0mV									
Thermal Sensitivity Shift (50°C/100°F)	±2.5%/±2.5%									
Damping Ratio (Nominal)	0.7									

ELECTRICAL

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

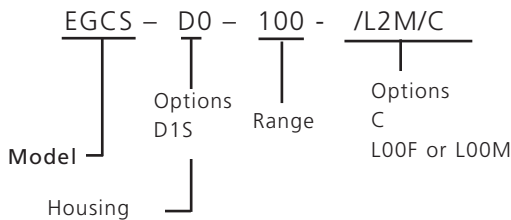
PHYSICAL

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

ENVIRONMENTAL

Shock Limit Sensitive Axis (g)	500	1000	2000	5000	10000	10000	10000	10000	10000	10000
Operating Temperature (°C)	-40 to 120									
Compensated Temperature (°C)	20 to 80									

ordering information



options

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:	L00F	= Replace "00" with total length in feet.
	L00M	= Replace "00" with total length in meters.
CONNECTOR WIRED TO CABLE:	C	= Microtech type male or equivalent

CONTATO

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