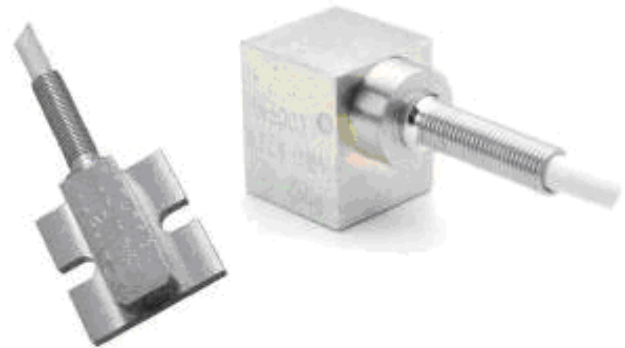


# Model EGCS-D0/D1S Accelerometer

Rugged Design  
DC Response  
10,000 g Overage 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.

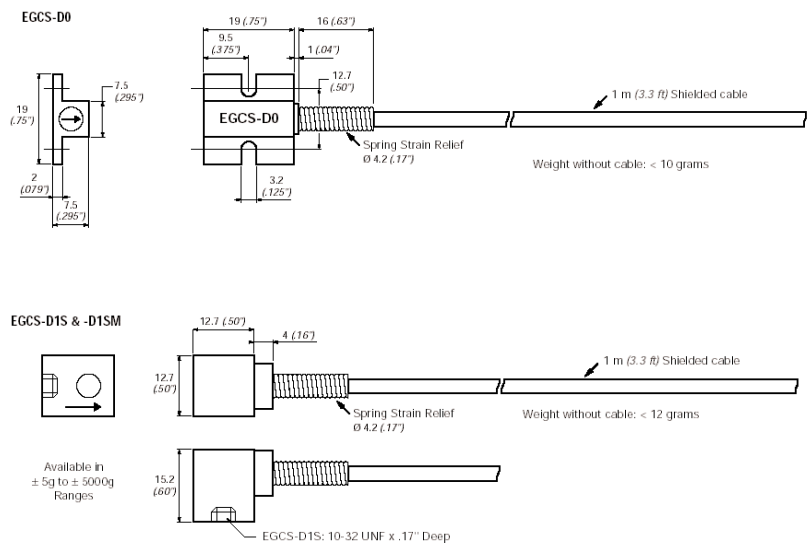
## FEATURES

- 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 Overage Protection

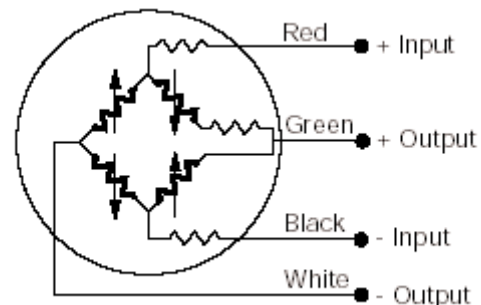
## APPLICATIONS

- 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

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

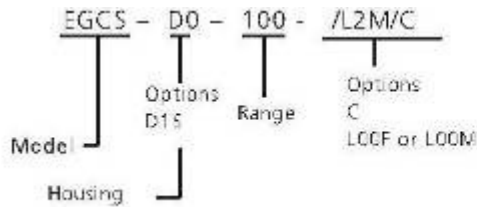
Shock Limit Sensitive Axis (g)	500	1000	2000	5000	10000	10000	10000	10000	10000	10000
Operating Temperature (°C)	-40 to 120									
Compensated Temperature (°C)	20 to 80									

# Model EGCS-D0/D1S Accelerometer

## performance specifications

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

## ordering info



**COMPENSATED TEMPERATURE RANGES:** STANDARD = 20°C to 80°C (70°F to 170°F)  
Z<sup>A</sup> = 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.