# RaceGrade

## Specification

FRONT

REAR

Document Number		RG_SPEC-0019		
Title		3-Axis Accelerometer		
Revision	Date	Prepared By	Change History	
1.4	10/22/2013	Chris Brown	updated diagrams, added 10G part number	

This accelerometer is designed to measure vehicular motion which normally occurs in the zero to 10 Hz range. It responds to DC accelerations and comes in a sealed harsh environment case. For best results use with a real time anti-alias software filter and log at 10 Hz.

#### Part # M AXL-5G or M AXL-10G

Range: ±5 G or ±10 G\* (\*special order only)

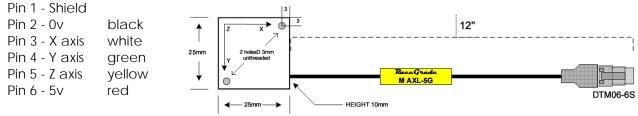
#### **Specifications:**

Output:	0 - 5v absolute	
Supply Voltage:	5 - 16 VDC	
Supply Current:	less than 5 mA	
Cut off frequency:	100 Hz 1 <sup>st</sup> order	
Cross axis sensitivity:	up to 5%	NO VVI-20
Temperature Drift:	gain ±2%	and the second s
	offset ±50mV	
Temperature Range:	-20°C to +85°C	
Dimensions:	25 x 25 x 10mm	
Protection:	IP66	
Weight:	20 grams w/o connector	
Calibration:		
Scale for ±5G:	400 mV/G ±32	
Scale for ±10G:	200 mV/G ±16	
Zero offset at 0G:	2500 mV ±100	

### Connection:

Mating Connector: DTM06-06P, Part # M DTM-6PK

Note: Calibrations are nominal, actual sensor might vary within spec above.



#### Mounting Considerations:

Do not firmly mount sensor to the chassis as this will induce unwanted engine vibration. Use soft hook & loop tape for mounting, not the industrial type or screws. This will reject the most amount of engine vibration. Mount on a solid structure of the chassis. Do not mount on any type of thin sheet metal.

All accelerometers, including temperature compensated ones will vary with temperature so avoid major heat soak.