

Document Number		RG_SPEC-0053	
Title		Differential Hall Effect Sensor	
Revision	Date	Prepared By	Change History
1	02/21/2016	Chris Moritz	Initial Release

Introduction

The M GT101DC is a differential Hall Effect sensor. It outputs a 0-8V square wave and should be triggered on a ferrous tooth-it does not require a magnet. These sensors are suitable for either measuring wheel speed or as engine speed/synchronization sensors.

Specifications

Input Voltage	+4.5 to +24 VDC	Tooth Height	0.200 in, min
Air Gap	0.005" to 0.080"	Gap Width	0.400 in, min
Speed Range	50Hz to 10kHz	Tooth Width	0.100 in, min
Output Signal	Open Collector NPN, no pull up	Wheel Thickness	0.250 in, min
Output Voltage	400mV to V_{in}	Target Diameter	4 in, min
Output Current	10 μ A		
Operating Temp	-40°C to +150°C		

Wiring Information

