

<b>Document Number</b>		RG_SPEC-0064	
<b>Title</b>		Hall Effect Sensor	
<b>Revision</b>	<b>Date</b>	<b>Prepared By</b>	<b>Change History</b>
1	02/21/2017	Chris Moritz	Initial Release
2	05/30/2017	Chris Moritz	Torque Spec Added
3	8/16/2017	Hannah Westbrook	Updated Pinout and Drawing

## Introduction

The M MHALL 437 is a Hall Effect sensor. It outputs a 0-8V square wave and should be triggered on the south pole of a magnet—a ferrous tooth will not work. These sensors are suitable for either measuring wheel speed or as engine speed/synchronization sensors. Part number M MHALL MAG or M MHALL MAG ASB are recommended as targets.

## Specifications

<b>Input Voltage</b>	+4.5 to +24 VDC
<b>Air Gap</b>	0.030" to 0.060"
<b>Speed Range</b>	0-15 kHz
<b>Output Signal</b>	Open Collector NPN, 4.7KΩ pull up
<b>Output Voltage</b>	400mV to $V_{in}$
<b>Output Current</b>	50mA continuous
<b>Operating Temp</b>	-20°C to +140°C
<b>Install Torque</b>	11 to 15 ft-lb

## Wiring Information

