

Hall Sensor



The **iTriangle - Hall Sensor** measures the Hall Effect, which is the production of a voltage difference across an electrical conductor transverse to an electric current in the conductor and a magnetic field perpendicular to the current. This device has a continuous-time switch. The output of this device switches low (turns on) when a magnetic field (south polarity) perpendicular to the Hall sensor exceeds the operating point threshold BOP, and switches high (turn off) when the magnetic field disappears. The switch can be used to measure RPM.

Features

- iTriangle compatible interface
- 400 ns transition period for rise and fall.
- Continuous-time hall effect sensor
- Reverse battery protection

Specifications

Item	Min	Typical	Max	Unit
Supply Voltage	3.8	5.0	24	V
Supply Current	4.1	-	24	mA
Operating Temperature	-40	-	85	°C