



■ General Description

The OCH1511 is an integrated Hall effect omnipolar sensor. The device using High Voltage process includes an on-chip Hall voltage generator for magnetic sensing, a comparator that amplifiers the Hall voltage, and a Schmitt trigger to provide switching hysteresis for noise rejection, and an open-collector output. An internal band-gap regulator is used to provide temperature compensated supply voltage for internal circuits and allows a wide operating supply range.

■ Features

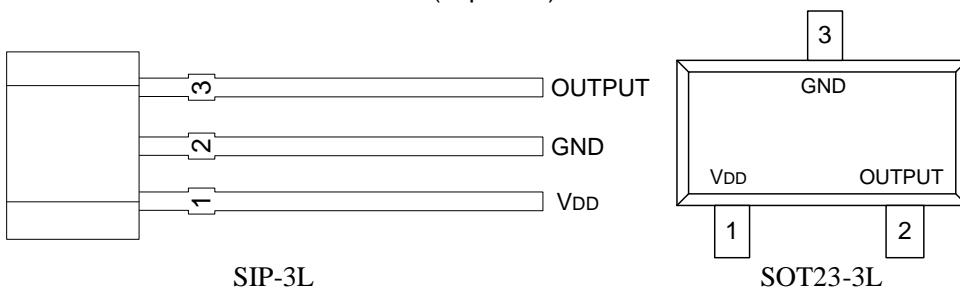
- Wide operating voltage range: 2.7V~30V
- Operating temperature range: -40°C ~+150°C
- Temperature compensation
- Reverse polarity protection
- Open-Drain pre-driver
- Package: SIP-3L、SOT23-3L

■ Applications

- Speed measurement
- Revolution counting
- Smart meter
- Position Detection

■ Pin Configuration

(Top View)



Name	PIN No.		Status	Description
	SIP-3L	SOT23-3L		
VDD	1	1	P	IC Power Supply
GND	2	3	P	IC Ground
OUTPUT	3	2	O	Output Pin

■ Application Circuit

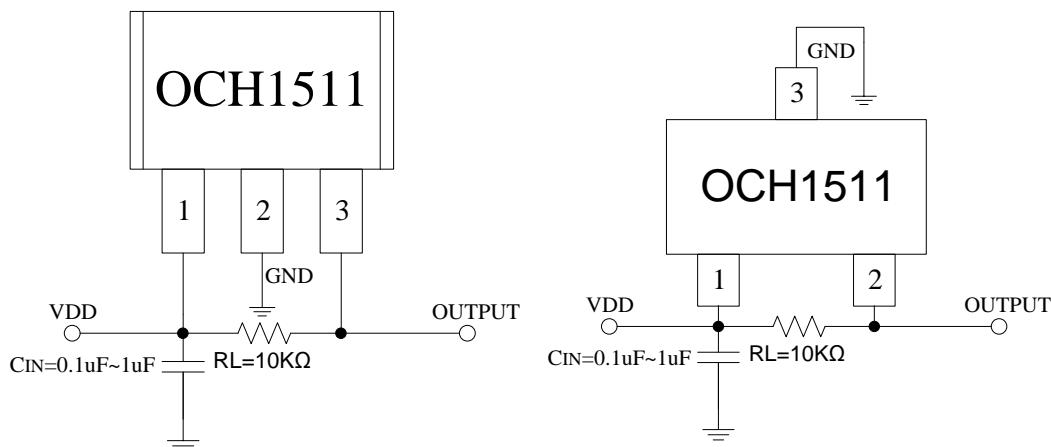


Figure 1, application circuit

Note: C_{IN} is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 0.1~1uF.

■ Ordering Information

Part Number	Package Type	Packing Qty	B _{OP} (Gauss)	B _{RP} (Gauss)	Temperature	Eco Plan	Lead
OCH1511MF	SIP-3L	1000pcs	± 155 (Typ.)	± 95 (Typ.)	-40~ 150°C	ROHS	Cu
OCH1511WAF	SOT23-3L	3000pcs	± 155 (Typ.)	± 95 (Typ.)	-40~ 150°C	ROHS	Cu

■ Block Diagram

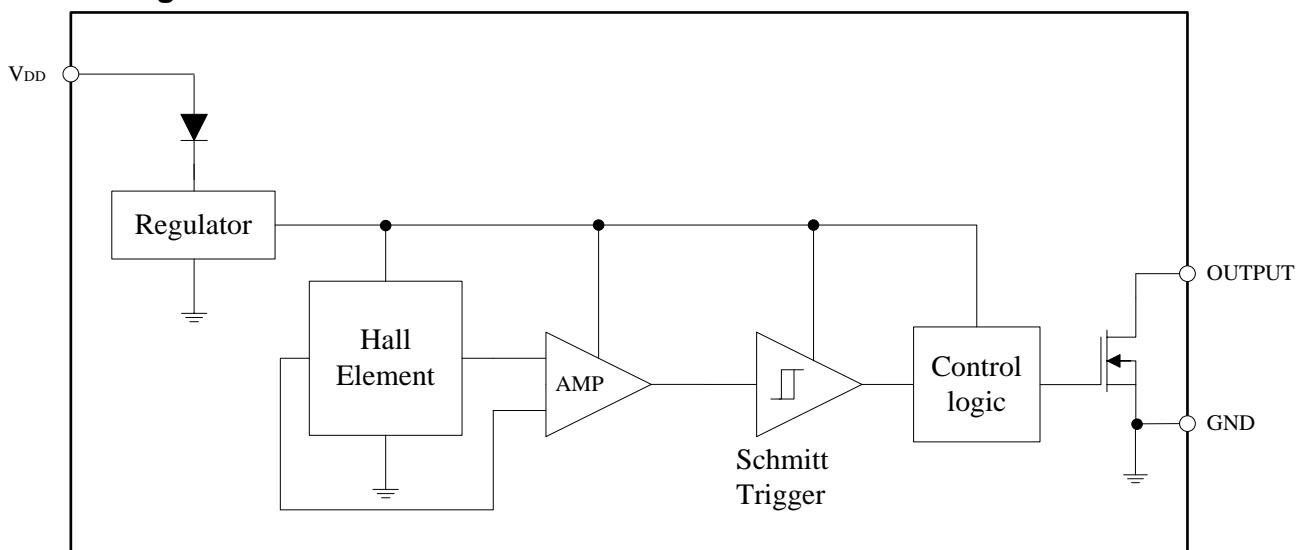


Figure 2, Block Diagram Of OCH1511

■ Absolute Maximum Ratings

Supply Voltage	36V	
Output OFF Voltage, V _{DS}	36V	
Output Maximum Sink Current (AVG)	25mA	
Power Dissipation (SIP-3L)	T _a =25°C	400mW
Power Dissipation (SOT23-3L)	T _a =25°C	260mW
Thermal Resistance (SIP-3L)	T _{ja}	0.34°C/mW
	T _{ic}	0.42°C/mW
Thermal Resistance (SOT23-3L)	T _{ja}	0.52°C/mW
	T _{ic}	0.64°C/mW
Operating Temperature Range	-40°C ~+150°C	
Storage Temperature Range	-65°C ~+150°C	
Junction Temperature	+150°C	
Lead Temperature(Soldering,10 sec)	+260°C	