

General Description

The OCH15300 is an X-aixs omnipolar sensor. The device using High Voltage process includes an on-chip Hall voltage generator for magnetic sensing, a comparator that amplifiers the X-axis Sensor voltage, and a Schmitt trigger to provide switching hysteresis for noise rejection, and an open-drain output. An internal band-gap regulator is used to provide temperature compensated supply voltage for internal circuits and allows a wide operating supply range.

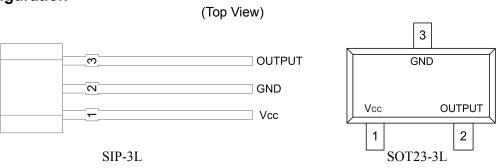
Features

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

Applications

- Liquid level measurement
- Proximity switch
- Speed measurement

■ Pin Configuration



Pin Name	Pin Number		Description		
	SIP-3L	SOT23-3L	Description		
Vcc	1	1	IC Power Supply		
GND	2	3	IC Ground		
OUTPUT	3	2	Output PIN		

Application Circuit

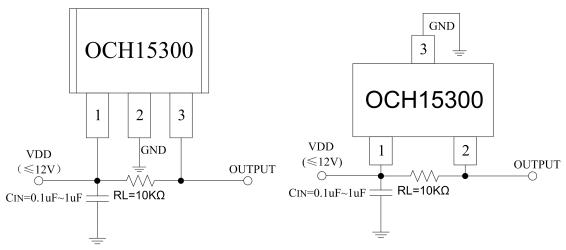


Figure 1, Application circuit

Note: When VDD \leq 12V, C_{IN} is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 0.1~1uF.

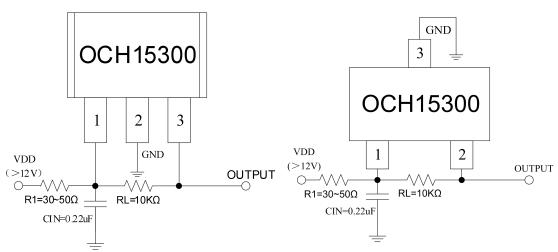


Figure 2, Application circuit

Note: When VDD $> 12V\,$, C_{IN} and R1 are designed to stabilize power and enhance noise immunity, the recommended capacitance is 0.22uF, The recommended resistance is $30{\sim}50\,\Omega$.

Ordering Information

Part Number	Package Type	Packing Qty	B _{OP} (Gauss)	B _{RP} (Gauss)	Temperature	Eco Plan	Lead
OCH15300MF	SIP-3L	1000pcs	±55(Typ.)	±35(Typ.)	-40~ 150°C	RoHS	Cu
OCH15300WAF	SOT23-3L	3000pcs	±55(Typ.)	±35(Typ.)	-40~ 150°C	RoHS	Cu

Block Diagram

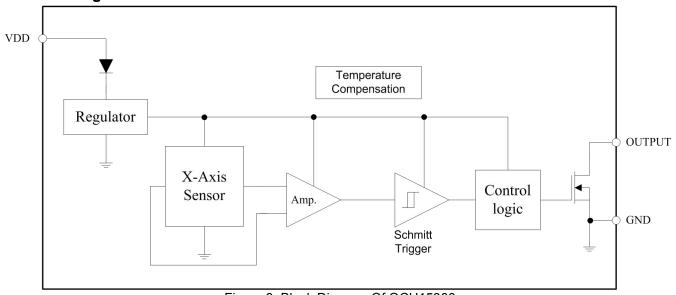


Figure 3, Block Diagram Of OCH15300