General Description

The OCH1931 is a small, versatile linear Hall-effect device that is operated by the magnetic field from a permanent magnet or an electromagnet .The linear output voltage is set by the supply voltage and varies in proportion to the strength of the magnetic field.

The integrated circuitry features low noise output, which makes it unnecessary to use external filtering. It also includes thin film resistors to provide increased temperature stability and accuracy.

The linear Hall sensor has an operating temperature range of -40 °C to 85 °C appropriate for commercial, consumer and industrial environments.

Features

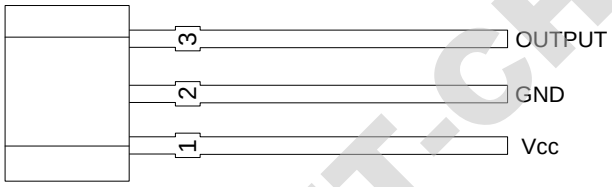
- Input Voltage Range : 2.5V to 7.5V
- Low-noise Output virtually Eliminates the Need for Filtering
- Responds to either Positive or Negative Gauss
- Single Current Sourcing Output
- Available in SIP-3L Packages
- -40℃ to +85 ℃ Temperature Range

Applications

- Motor Control
- Current Sensing
- Position Sensing
- Magnetic Code Reading
- Rotary Encoder

Pin Configuration

(Top View)



SIP-3L

Name	PIN No.	Description
Vcc	1	IC Power Supply
GND	2	IC Ground
OUTPUT	3	Linear Voltage Output Pin

Application Circuit

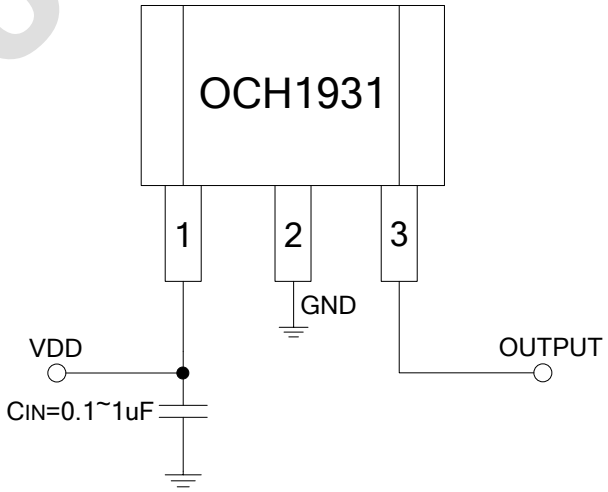


Figure 1, application circuit

Note: C_{IN} is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 0.1~1uF. If the VDD power supply is clean, the C_{IN} can be cancelled.

■ Ordering Information

Part Number	Package Type	Packing Qty	Sensitivity	Temperature	Eco Plan	Lead
OCH1931MD	SIP-3L	1000pcs/bag	2.5mV/GS	-40～85℃	RoHS	Cu

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