



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

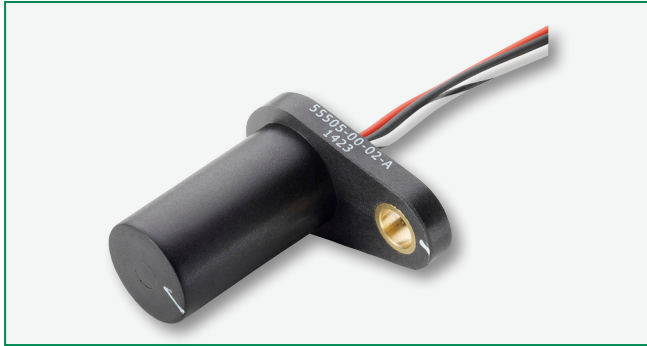
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



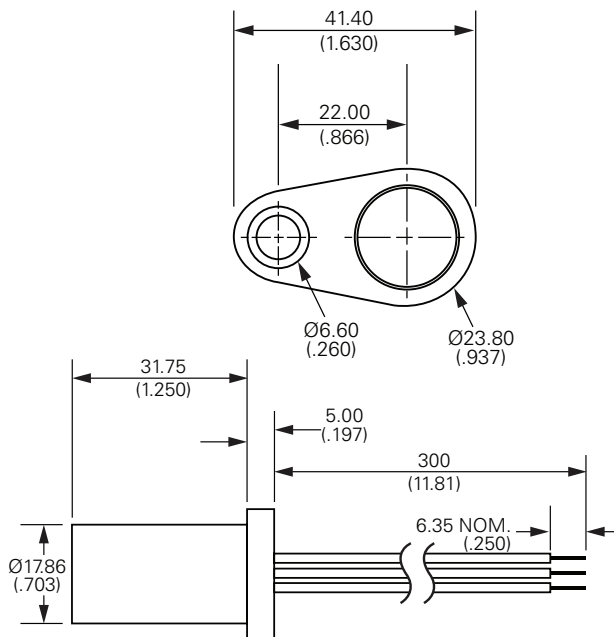
55505 Hall Effect Flange Mount Geartooth Speed Sensor

RoHS

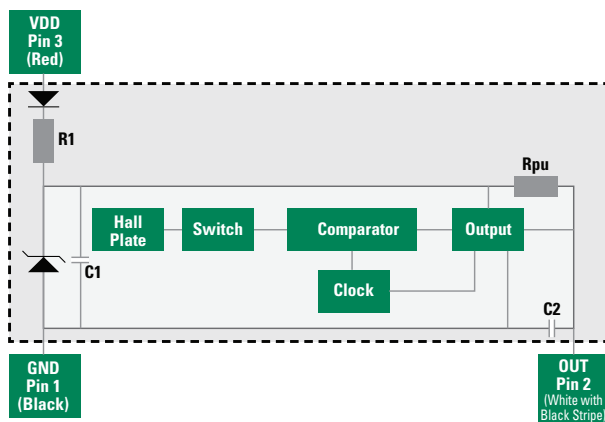


Dimensions

Dimensions in mm (inch)



Block Diagram



Description

The 55505 is a robust flange mounting hall effect sensor primarily for geartooth speed sensing. Protected against severe and automotive environments. It is capable of switching up to 27Vdc and 20mA and available as three-wire (voltage output) version. Its case design incorporates brass mounting bush. It is ideally suited to wheel, transmission and camshaft speed sensing, geartooth sensor, rotary encoders, industrial, commercial, and automotive applications.

Features

- Ferrous target speed sensing
- Internal circuit protection
- Protection against severe and automotive environments
- Self adjusting magnetic range
- Automotive grade circuit protection
- High speed operation
- Short circuit and reverse voltage protection
- On board 10-bit A/D convertor

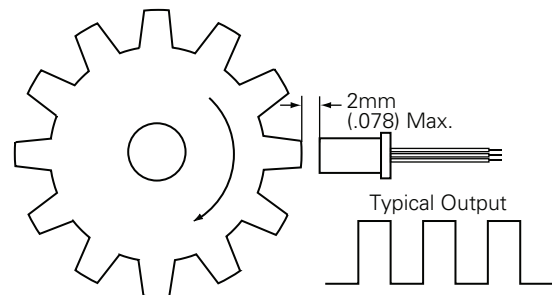
Benefits

- No chopper delay
- Immune to target run out
- Rotational alignment to target not critical

Applications

- Wheel, transmission and camshaft speed sensing
- Geartooth sensor
- Rotary encoders
- Industrial
- Commercial
- Automotive

Application Example (Geartooth Sensor)



55505 Hall Effect Flange Mount Geartooth Speed Sensor

Electrical Ratings

Hall Type		Digital Switch 3-Wire (Voltage Output)	
Supply Voltage ¹	Operate Overvoltage Protection Reverse Voltage Protection	Vdc Vdc - max. Vdc - max.	4.75 to 24 27 -25
Output High Voltage		Vdc - min.	VDD -2 (-2 sinking output with internal pull-up)
Output Low Voltage		Vdc - max.	0.6 @ 20mA
Output Current (continuously on) Current Consumption Current Consumption		mA - max. mA - max. mA - max.	20 1 10.5
Current Consumption		mA - min. mA - max.	1 10.5
Switching Speed		KHz-max.	15
Temperature	Operating	°C	-40 to +125

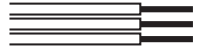


Note:

1. As long as Tj (Junction Temperature) is not exceeded.

Cable Length Options

Cable Type: 20AWG 7/28 TXL 125C SAE J1128	
Select Option	Cable Length mm (inch)
02	300 (11.81)

Termination Options

Select Option	Description	
A	Tinned Leads	
B	Deutsch DTM04-3P	
C	Molex MX 150	

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	500	N/A	N/A