Hall effect Gear tooth Sensor

General Description

OHG101 Hall effect gear tooth sensor utilize magnetic biased hall-effect IC to measure the movement of ferrous-like metal. Specially designed IC with separate electric capacity and biased alnico are sealed in a probe type outer casing.The working condition of hall-effect gear tooth sensor is related to the following factors, which must be considered in combination:

1. The material, shape and speed of the target object; 2. The gap between sensor and the target; 3. Ambient temperature.

Features

·Induce Ferrous Metal Targets
·Open-collector Output
·Signal-to-noise Ratio are Better than Electromagnetic Induction Sensors
·Excellent Low and High Speed Performance, Output Amplitude have no relation with Revolution
·Frequency response: 10Hz to 20KHz (It depend on the target)
·Solid package, Connector Output Port

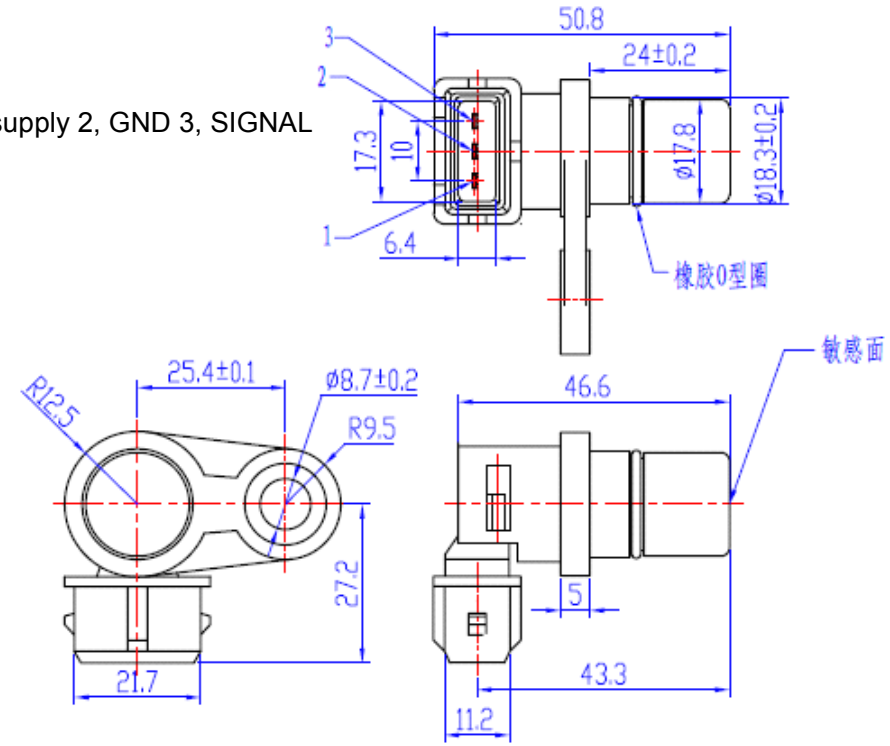
Typical applications

·Gear box RPM Measurement
·Sprocket Speed Measurement
·Conveyor Speed and Distance Measurement
·Crankshaft and Camshaft RPM and position detection
·Pulse count
·Speedometer

More products information，please contact：Nanjing Ouzhuo Technology Co., Ltd Website : **www.ohhall.com wwww.zbling.com**
Tel：025-52312738，83247886 Fax：025-52312738 E-mail: ohhall@163.com ouzhuotec@163.com

Part No.： PCC020

1,supply 2, GND 3, SIGNAL



Suppy Voltage VCC 4.5～24 V

Load current Icc ≤ 40mA

Output Voltage(Output low voltage) VOL≤ 0.6 V

Operate Temperature T -40～150 ℃

DIstance between Sensor and Gear tooth

D 0.1～1.5 mm

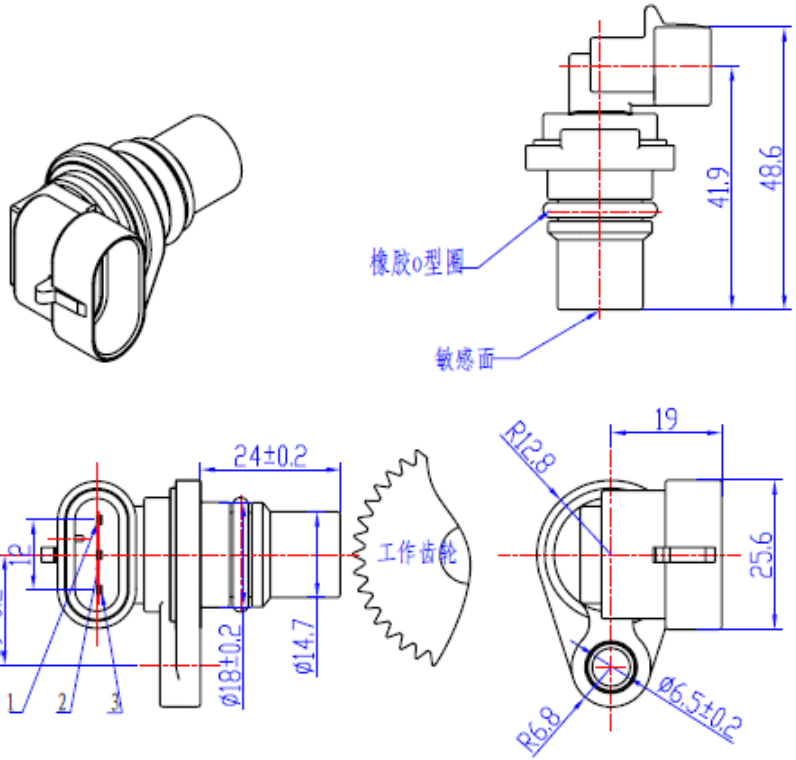
Gear for reference:

m=2, number of teeth=40, Thickness:10

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Part No.：HUA0908



1, signal 2, supply 3,GND

Suppy Voltage VCC 4.5～24 V

Load current Icc ≤ 40mA

Output Voltage(Output low voltage) VOL≤ 0.6 V

Operate Temperature T -40～150 ℃

DIstance between Sensor and Gear tooth

D 0.1～2.0 mm

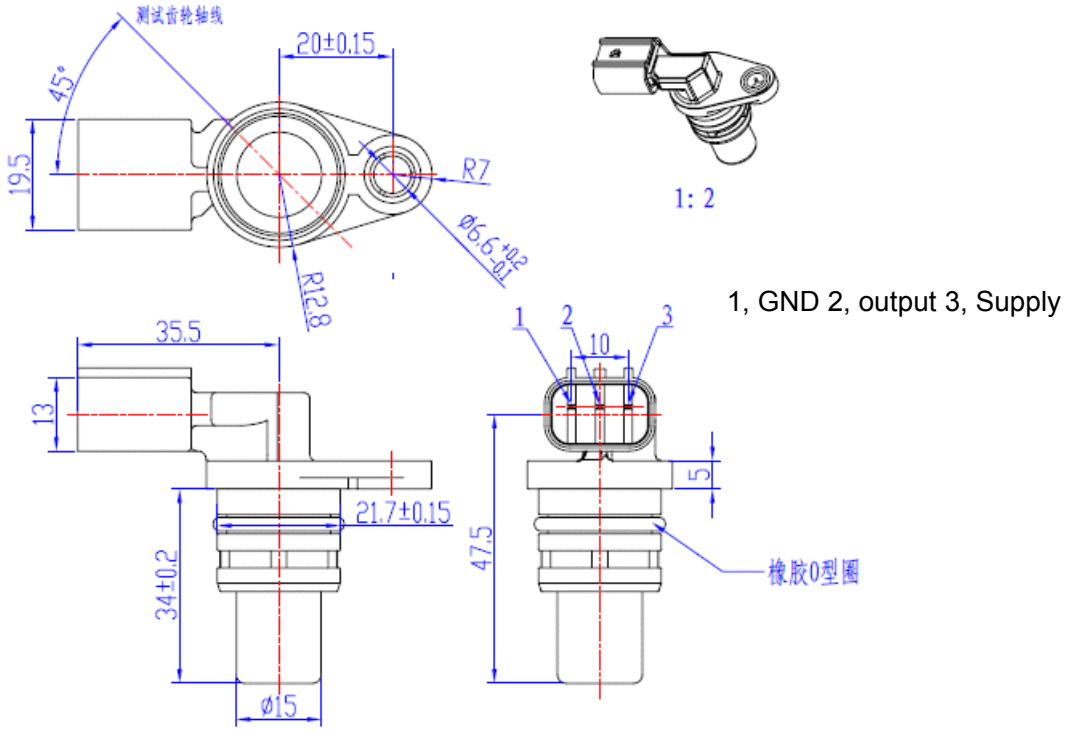
Gear for reference:

m=2, number of teeth=40, Thickness:10

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Part NO.： 12K073



1, GND 2, output 3, Supply

Suppy Voltage	VCC	4.5～24	V
Load current	Icc	≤ 40mA	
Output Voltage(Output low voltage)	VOL≤ 0.6		V
Operate Temperature	T	-40～150	℃

DIstance between Sensor and Gear tooth

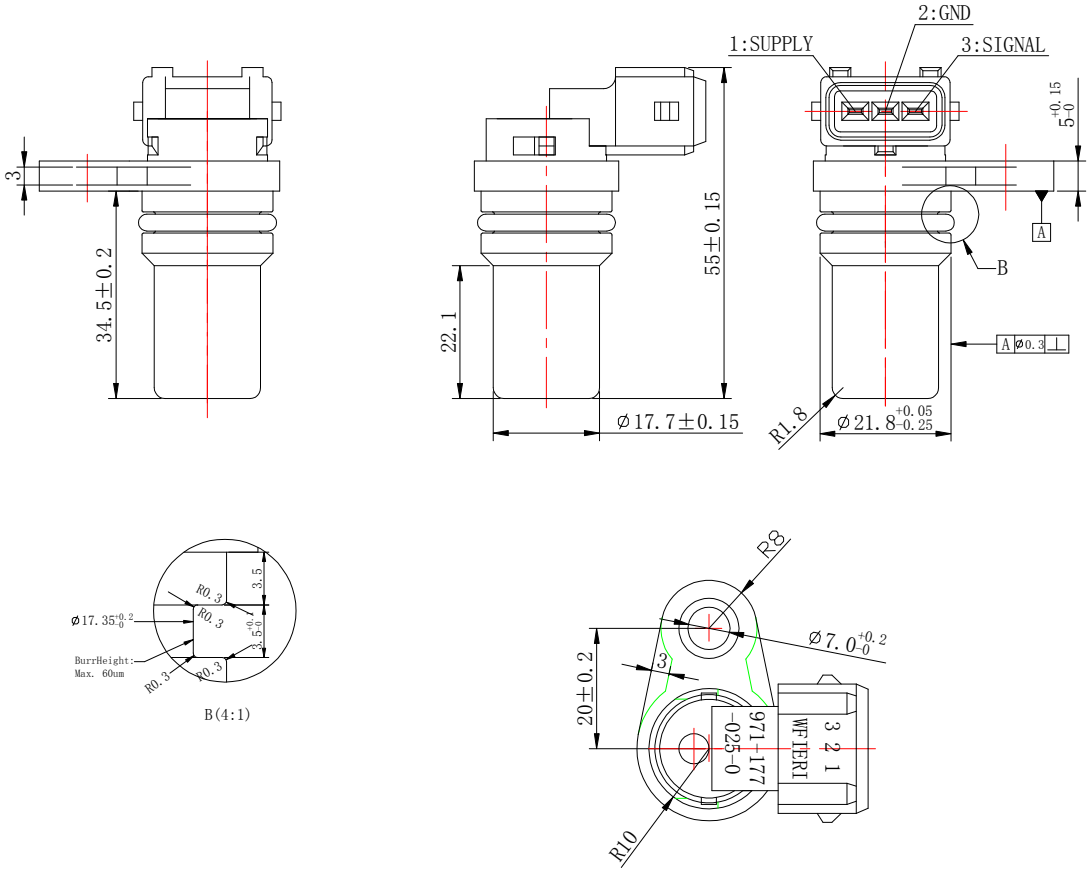
D 0.1～2.0 mm

Gear for reference:

m=2, number of teeth=40, Thickness:10

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Par No. ： HG-04



Suppy Voltage VCC 5～24 V

Load current Icc ≤ 25mA

Output Voltage(Output low voltage) VOL≤ 0.4 V

Output Leakage Current IOH ≤ 10μA

Switching Time (Depend on external cuircuit)

Raise (10% to 90%) t 15 μs

Fall (90% to 10%) t 1 μs

Frequency Range f 10～20000 Hz

Operate Temperature T -40～150 ℃

DIstance between Sensor and Gear tooth

D 1～2.5 mm

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