HZL Series Hall Gear Sensor

Brief introduction

HZL Series Hall Gear Sensor is a kind of new sensor used to measure speed, angle, revolving speed, length, etc. It transforms the number of black metal gears or gear racks of sensor into the voltage pulse signal to measure the speed, revolving speed, etc. of objects.

Electrical parameter (Ta = 25℃)

Parameter	Symbol	Magnitude	Unit
Working voltage	V_{oc}	5—20	V
Working current	I_{oc}	≤15	mA
Output of low level	V_{OL}	≤4	V
Output of high level	V_{OH}	≥(V_{oc}-1)	V
Working distance	d	≥1.5	mm
Upper limit of working frequency	f	15K	Hz
Operating temperature	T	-40～+100	°C

Overall dimension (mm)

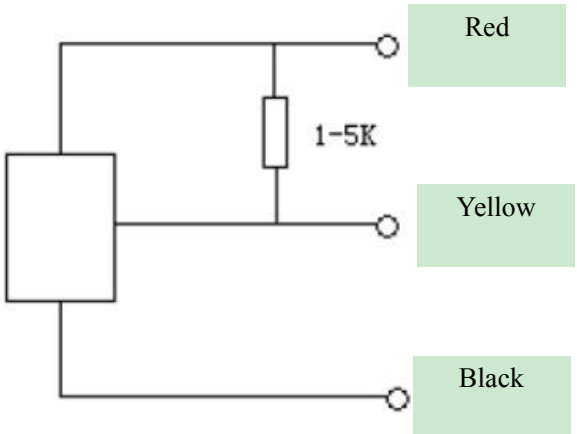
Model	Exterior
HZL301	A
HZL360	B
HZL302	C
HZL304	D
HZL3**	Customizable

Application

· The working distance shall be adjusted appropriately upon installation of sensor to facilitate the reliable working of sensor.

· The sensor output adopts the collector open-circuit output method in case of no special instructions.

Red line: Positive pole Yellow line: Output Black line: Negative pole of power supply



Typical application

· Automobile camshaft and crankshaft speed/speed detection

· Automobile and industrial speedometer

· Automobile antiskid/ traction control

Speed and distance detection of chain conveyor belt

"Movement stop" detector

Counter

Characteristics

· Black metal target of sensing

· Output amplitude is unrelated to revolving speed, with excellent low-speed performance.

· The working frequency is high and can reach 15KHZ

· With anti-electromagnetic interference, three-defense anti-vibration processing is conducted.

Reverse polarity protection of power supply

Convenient installation and repair

· The space width of measured gear shall be more than 3mm, otherwise, the gear samples can be customized.

Exterior reference: