

HK Series Hall Proximity Switch

Brief introduction

HK Series Hall Proximity Switch, as a kind of new automatic switch driven by magnetic field signal, is composed of Hall switching circuit, protector, waterproof case, etc. and can convert the waterproof case into digital voltage for output.

Electrical parameter (Ta = 25°C)

Magnitude model		HKK and HKB							
		5002		8002		5020		8020	
		B	D	B	D	B	D	B	D
Reference power voltage Vcc(V)	Vmin	5	8	5	8	5	8	5	8
	Vmax	9	30	9	30	9	30	9	30
Load current Io(mA)		20				200			
Detection magnet		Customization requirements of customers							
Working distance (mm)		5	8-10		5	8-10			
Response frequency fmax(KHz)		50							
Repeated positioning accuracy (mm)		0.1							
Output mode		NPN and PNP (without special statement, defaulted as NPN output)							
Operating temperature range		-25~70°C							
Packaging mode		Type E-1 and Type E-2							
Form of cables		Customization requirements of customers (without special statement, defaulted as 50cm 3-core sheath line)							



Characteristics

- High response frequency
- High repetition accuracy
- Various work modes

Application

- Position control, revolving speed control, processing size control, liquid level detection, and automatic connection of various processes

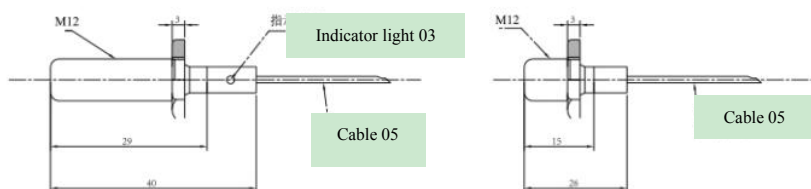
Connection and adjustment

- 1 pin (red line): Positive power supply
- 2 pins (yellow line): Output signal
- 3 pins (black line): Power ground (0V)

Operation Instructions

- Sensor shall have correct connection. (note: false connection may cause the damage of module).
- HKK is normally on,
- HKB is normally off;

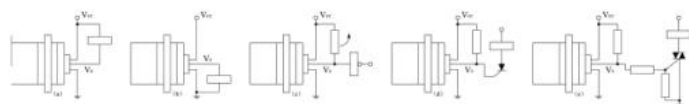
Overall dimension



Type E-1

Type D E-2

Wiring diagram



- a) NPN output is the same as the load connection b) PNP output is the same as the load connection
- c) NPN type is the same as the digital circuit connection d) NPN type is the same as single controllable silicon connection
- e) NPN type is the same as the bidirectional controllable silicon connection.