



## KLY-HK-BJ10 Series Open Loop Mode Hall Effect Current Sensor

### KLY-HK-BJ10系列开环型霍尔电流传感器



#### Instructions 使用说明

1. Incorrect wiring may cause the damage of sensor.  
1. 保证接线正确，错误的接线可能会导致传感器损坏。
2. When the measured current through the center hole of the sensor, the current will be measured at the output end.  
2. 当待测电流通过传感器的穿心孔，可在输出端测得电流大小。
3. The dynamic performance (di/dt and the response time) is the best when the primary hole is fully filled with the bus bar.  
3. 母排完全充满初级穿孔时动态表现(Di/dt和响应时间)为最佳。
4. User can adjust the output extent of sensor if necessary.  
4. 传感器输出幅度可根据用户需求进行适当的调节。
5. Rated input current and output voltage of sensor can be customized.  
5. 可按用户需求定制不同额定输入电流和输出电压的传感器。

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#### Products Features

Excellent accuracy	High immunity to external interference
Very good linearity	Low temperature drift
Optimized response time	Wide frequency bandwidth
No insertion losses	

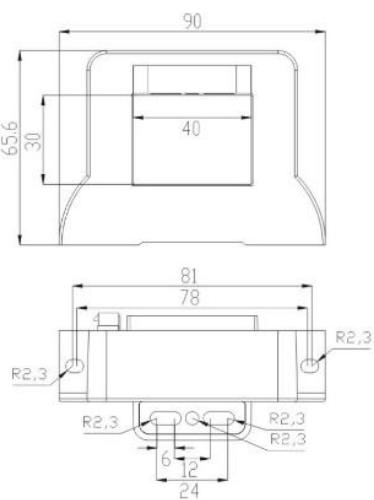
#### 产品特点

精度高	抗干扰能力强
良好的线性度	低温度漂移
最佳的响应时间	频带宽
无插入损耗	

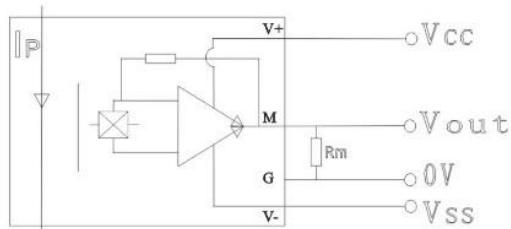
#### Electrical Data( $T_a=25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )电气参数

Parameters 参数	Type 型号	KLY-HK-BJ10-0E1G					
Rated input 额定测量电流 $I_{pn}$		±200A	±400A	±500A	±600A	±800A	±1000A
Measure range 测量范围 $I_p$		±400A	±800A	±100A	±1200A	±1600A	±2000A
Rated output voltage 额定输出电压 $V_s$							±4V(±1%)
Supply voltage 电源电压 $V_{cc}$							±15V(±5%)
Current consumption 功耗电流 $I_c$							<28mA
Offset voltage 零点失调电压 $V_0$							<±20mV
Offset voltage drift 失调电压温漂 $V_{ot}$	@ $I_p=0$ $T_a=-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$						≤ ± 1 mV/°C
Hysteresis offset voltage 磁失调电压 $V_{oh}$							<±15mV
Linearity 线性度 $\epsilon_L$							<1%FS
Response time 响应时间 $T_r$	@ 50A/μS, 10% - 90%						<5 μS
Galvanic isolation 绝缘电压 $V_D$	@ 50HZ, AC, 1min						3kV
Frequency bandwidth 频带宽度	@ -3db						DC ~ 25kHz
Load resistance 负载电阻 $R_M$							≥ 10kΩ
Operating temperature 工作环境温度 $T_A$							-40°C ~ +85°C
Storage temperature 贮存环境温度 $T_S$							-40°C ~ +100°C
Mass(approx) 毛重(约) m							300g
Standards 执行标准							JB/T 7490-2007

#### Mechanical Dimension(for Reference Only) 结构参数



#### Circuit Connection Diagram 电路连接示意图



管脚定义 Pin Definition  
 1. V+ (Vcc)  
 2. V- (Vss)  
 3. M (Vout)  
 4. G (GND)

Casing material 外壳材料: 符合UL94-V0