



KLY-HT-BY05 Series Hall AC Current Transmitter

KLY-HT-BY05系列霍尔交流电流变送器



KLY-HT-BY09 Series current transmitter is an open loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit. It provides accurate electronic measurement of AC, pulsed currents.

KLY-HT-BY09系列传感器是应用霍尔效应开环原理的电流变送器，应用在电隔离条件下测量交流、脉冲电流。

Products Features

Excellent accuracy High immunity to external interference
 Very good linearity Low temperature drift
 Optimized response time 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 无插入损耗

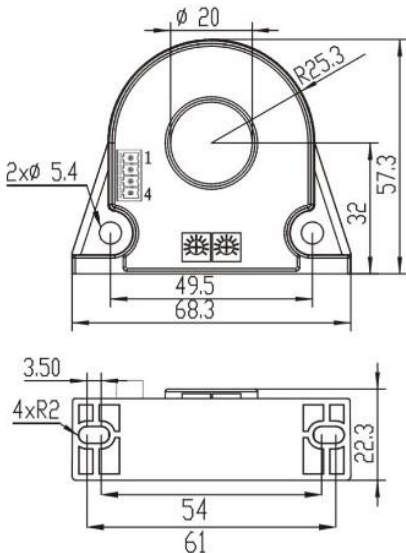
Instructions 使用说明

- 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。
- 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。
- 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。
- 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。
- 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。

Electrical Data(Ta=25°C±5°C)电气参数

Type型号	KLY-HT-BY05-0L1C					
Parameters参数						
Rated input 额定测量电流 $I_{FM}@AC$	±50A	±100A	±200A	±300A	±400A	±500A
Measure range 测量范围 $I_r@AC$	±100A	±200A	±400A	±600A	±800A	±1000A
Rated output current 额定输出电流 I_s	DC		4-20mA(±1%)			
Supply voltage 电源电压 V_{CC}	DC		+24V(±5%)			
Current consumption 功耗电流 I_c	<35+ I_{out} mA					
Zero current 零点电流 I_0	<4±0.1mA					
Offset voltage drift 失调电压温漂 V_{OT}	@ $I_p=0$ $T_a = -40^{\circ}C \sim +85^{\circ}C$					≤ ± 0.005 mA/°C
Linearity 线性度 ϵ_L	<1%FS					
Response time 响应时间 T_R	≤200mS					
Galvanic isolation 绝缘电压 V_D	@ 50HZ, AC, 1min					3kV
Frequency bandwidth 频带宽度	@ -3db					20~20k Hz
Operating temperature 工作环境温度 T_A	-25°C ~ +85°C					
Storage temperature 贮存环境温度 T_s	-40°C ~ +100°C					
Mass(approx) 毛重(约) m	135g					
Standards 执行标准	JB/T 7490-2007					

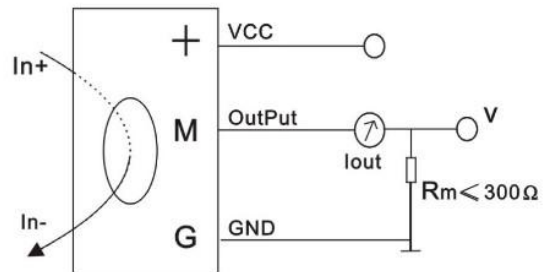
Mechanical Dimension(for Reference Only)结构参数



管脚定义 Pin Definition

1. + (Vcc)
2. G (GND)
3. M (Iout)
4. G (GND)

Circuit Connection Diagram 电路连接示意图



Casing material 外壳材料: 符合UL94-V0