

HKA—K1YD系列霍尔电流变送器

(HKA—K1YD Hall-effect Current Transducer Series)

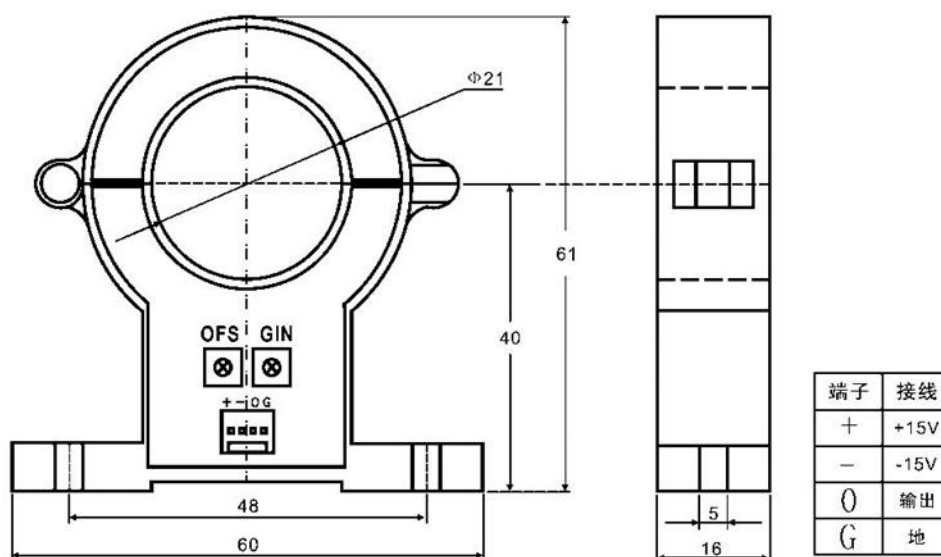
HKA—K1YD 系列霍尔电流传感器的初、次级之间是绝缘的，可用于测量交流电流。

(HKA — K1YD Series Hall-effect Current transducer between primary and secondary is insulated, can be used for the measurement of AC current)

电气参数 (Electrical characteristics)								
	型号 Type	HKA30 — K1YD	HKA50 — K1YD	HKA100 — K1YD	HKA200 — K1YD	HKA400 — K1YD	HKA500 — K1YD	
I _{pn}	额定输入电流 (AC) Rated input	30	50	100	200	400	500	A
I _{pm}	测量电流范围 (AC) Measuring range	60	100	200	400	800	1000	A
R _m	负载电阻 Load resistance	≥ 10						K Ω
I _{out}	输出电压 Rated output voltage	5						V
I _o	零电压失调 Zero offset voltage	$< \pm 25$						mV
V _c	电源 Supply voltage	$\pm 15 \pm 5\%$						V
I _c	静态功耗 Current consumption	≤ 40						mA
I _{ot}	零点温漂 Thermal drift of I _o	$\leq \pm 1$						mV/°C
F	带宽 Frequency bandwidth (—3 dB)	20~20000						Hz
ε G	精度 Accuracy	1						%
ε L	线性度 Linearity	1						%

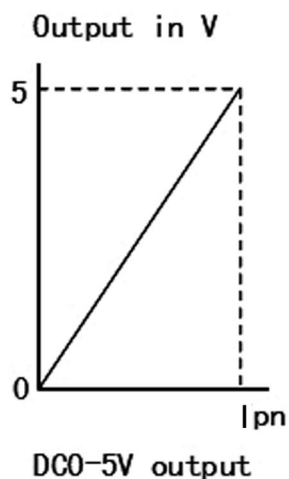
Tr	响应时间 Response time	≤ 200	mS
Vd	绝缘电压 Insulation voltage	2.5	KV
Ta	工作温度 Ambient operating temperature	-40~+85	°C
Ts	储存温度 Ambient storage temperature	-40~+125	°C
M	重量 mass	75	g
	标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS	

机械参数 Dimensions (mm)



引脚说明: +: +15V; -: -15V; 0: Vout; G: 输出地
端子标准: 3.52mm, 4pin 插接端子

线性关系 (Linear)



使用说明 Remarks

- 1、应用：通讯电源、不间断电源UPS、斩波器、电化学、整流、电源监测、电焊机、变频、开关电源、电池监测、电动机监测等领域。Application: communication power supply, uninterruptible power supply UPS chopper, electrochemical, rectifier, power monitoring, welding machines, inverter, switching power supply, battery monitoring, motor monitoring fields.
- 2、传感器的输出幅度可根据用户需要进行适当调节。The amplitude of the output of the sensor can be appropriately adjusted according to user needs.
- 3、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。Custom different rated input current and the output voltage of the sensor.
- 4、当待测电流从变送器穿过，即可在输出端测得电压大小。（注意：错误的接线可能导致变送器损坏）When the current to be measured is across from the transmitter can be measured at the output voltage size. (Note: incorrect wiring may cause transmitter damage)