

HKA—NP系列霍尔电流传感器

(HKA—NP Hall-effect Current Sensor Series)

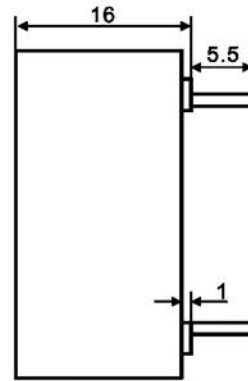
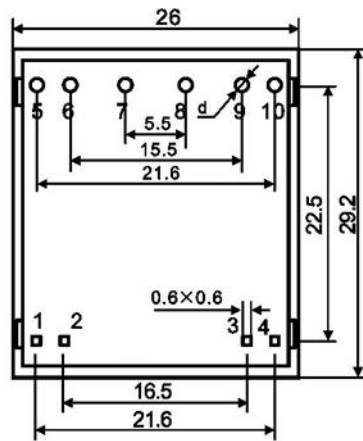
HKA—NP 系列霍尔电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流。

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

电气参数 (Electrical characteristics)								
	型号 Type	HKA0.5 -NP	HKA1 -NP	HKA2 -NP	HKA5 -NP	HKA10 -NP	HKA20 -NP	
I _{pn}	额定输入电流 Rated input	0.5	1	2	5	10	20	A
I _{pm}	测量电流范围 Measuring range	1.5	3	6	15	30	60	A
R _m	内接测量电阻 Measuring resistance	400	400	400	400	400	400	Ω
K _N	匝比 Turns ratio	30: 1500	15: 1500	8: 1600	3: 1500	2: 2000	1: 2000	
V _{out}	输出电压 Rated output voltage	4						V
V _o	零电压失调 Zero offset voltage	<25						mV
V _c	电源电压 Supply voltage	±15±5%						V
I _c	静态功耗 Current consumption	≤40						mA
I _{ot}	零点温漂 Thermal drift of I _o	≤0.5						mV/°C
F	带宽 Frequency bandwidth (-3dB)	DC~100						KHz
ε _G	精度 Accuracy	±0.5						%
ε _L	线性度 Linearity	±0.1						%

di/dt	跟随精度 Accurately followed	>50	A/μS
Tr	响应时间 Response time	≤1	μS
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	15	g
	标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS	

机械参数 Dimensions (mm)



	量程	d	连接引脚
1	0.5A-3A	2-0.65 ϕ	5、10
2	5A、10A	2-1.6 ϕ	6、9
3	20A	4-1.6 ϕ	6-7、8-9

说明：1、正电源，2、负电源，3、地，4、输出，5、6、7
电流输入，8、9、10、电流输出

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.