

## HKA—F1系列霍尔电流传感器

### (HKA-F1 Hall-effect Current Sensor Series)

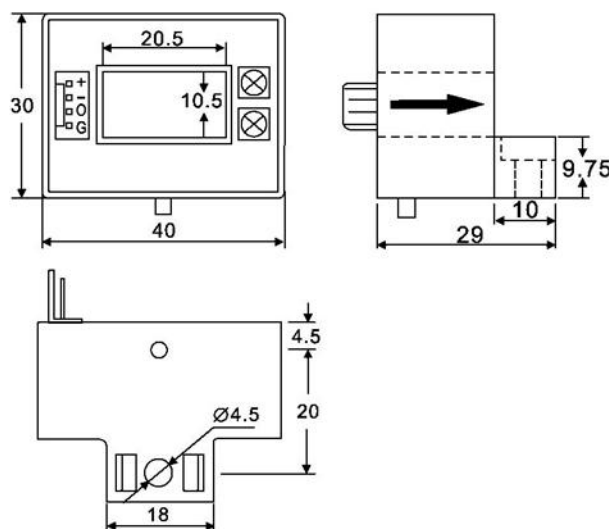
HKA-F1 系列霍尔电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流。

(HKA-F1 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	HKA50- F1	HKA100 -F1	HKA200 -F1	HKA400 -F1	HKA600 -F1	A
I <sub>pn</sub>	额定输入电流 Rated input	50	100	200	400	600	A
I <sub>pm</sub>	测量电流范围 Measuring range	100	200	400	800	1200	A
V <sub>out</sub>	输出电压 Rated output voltage	4					V
V <sub>o</sub>	零电压失调 Zero offset voltage	< ±25					mV
V <sub>om</sub>	磁失调电压 Magnetic offset voltage	≤ ±25					mV
R <sub>L</sub>	负载电阻 Load resistance	≥ 10					K Ω
V <sub>c</sub>	电源电压 Supply voltage	±15 ±5% (+5V 可选)					V
I <sub>c</sub>	静态功耗 Current consumption	≤ 25					mA
V <sub>ot</sub>	零点温漂 Thermal drift of V <sub>o</sub>	≤ ±0.5					mV/°C
F	带宽 Frequency bandwidth(-3dB)	DC~20					KHz
ε <sub>G</sub>	精度 Accuracy	±1					%
ε <sub>L</sub>	线性度 Linearity	±1					%
T <sub>r</sub>	响应时间 Response time	≤ 7					μ S
V <sub>d</sub>	绝缘电压 Insulation voltage	2.5					KV
T <sub>a</sub>	工作温度 Ambient operating temperature	-40~+85					°C
T <sub>s</sub>	储存温度 Ambient storage temperature	-40~+125					°C
M	重量 mass	55					g

标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS
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### 机械参数 Dimensions (mm)



引脚说明： 1, +15V 2, -15V 3, Vout 4, 0V

端子标准： 连接器 MOLEX-04A 压线端子（可选电缆输出）

OFS, 零点调节 GIN, 幅度调节

### 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.