

TKC-H 系列开环型可拆卸霍尔电流传感器

TKC-H Series Open Loop Mode Dismountable Hall Effect Current Sensor



TKC-H 系列可拆卸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。

TKC-H series is a kind of dismountable current sensor, which is a 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 DC、AC or pulsed currents.

电参数 Electrical data (Ta=25℃±5℃, RL=2KΩ, CL=10000PF)

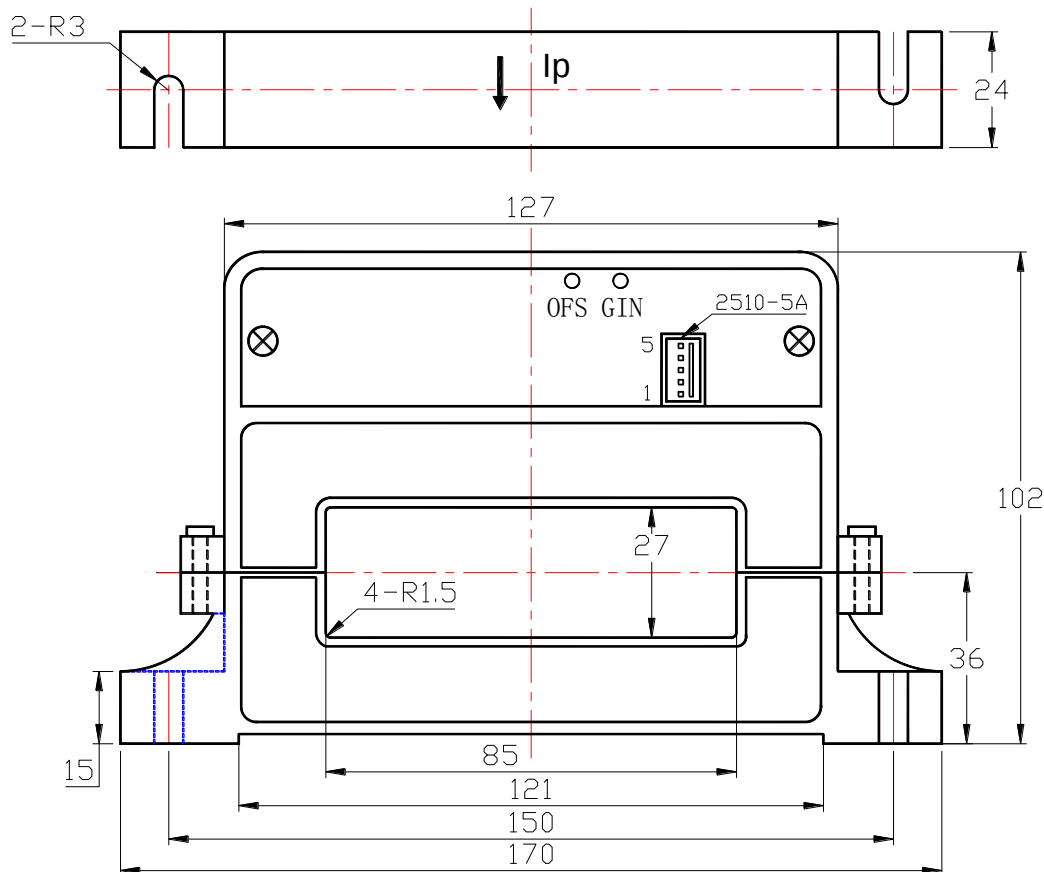
参数 Parameter	型号 Type	TKC600H	TKC1200H	TKC1800H	TKC2400H	TKC3000H	单位 Unit
额定输入电流 (I _{pn}) Rated current (I _{pn})		±600	±1200	±1800	±2400	±3000	A
测量电流范围 (I _p) Measuring range (I _p)		±1200	±2400	±2700	±3600	±4500	A
额定输出电压 Rated output voltage		@I _p =±I _{pn} ±4±1%					V
电源电压 Supply voltage		±15±5%					V
功耗电流 Power Consumption		+25, -10					mA
失调电压 Offset voltage		@I _p =0 ±20					mV
磁失调电压 Magnetic offset		@I _p =±I _{pn} -0 ±20					mV
失调电压温漂 Offset voltage drift		@ -40~+85℃ ≤±1					mV/℃
输出电压温漂 Output drift		@ -40~+85℃ ≤±1					mV/℃
线性度 Linearity		@I _p =0-±I _{pn} ≤1					%FS
响应时间 Response time		@50A/μS, 10%-90% ≤7					μS
绝缘电压 Galvanic isolation		@ 50Hz, AC, 1min 6					KV

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应用 Applications

- 变频调速系统
Variable speed drives
- 电焊机
Welding machine
- 通讯电源
Battery supplied applications
- 不间断电源 UPS
Uninterruptible Power Supplies (UPS)
- 电化学
Electrochemical

结构参数	Mechanical dimension(for reference only)
管径/mm	Nominal diameter/mm
壁厚/mm	Wall thickness/mm
管长/m	Pipe length/m
管重/kg	Pipe weight/kg
管重率/%	Pipe weight ratio/%
管径公差/mm	Diameter tolerance/mm
壁厚公差/mm	Wall thickness tolerance/mm
管长公差/mm	Pipe length tolerance/mm
管重公差/g	Pipe weight tolerance/g
管重率公差/%	Pipe weight ratio tolerance/%
管径公差/mm	Diameter tolerance/mm
壁厚公差/mm	Wall thickness tolerance/mm
管长公差/mm	Pipe length tolerance/mm
管重公差/g	Pipe weight tolerance/g
管重率公差/%	Pipe weight ratio tolerance/%



Pins	Connected
1	+15V
2	GND
3	-15V
4	NC
5	OUT

Remarks:

1. All dimensions are in mm.
2. General tolerance $\pm 1\text{mm}$.

使用说明 Directions for use

1. 当待测电流从传感器穿过，即可在输出端测得电压大小。(注意：错误的接线可能导致传感器损坏)
When the current will be measured goes through a sensor, the voltage will be measured at the output end.
(Note: The false wiring may result in the damage of the sensor)

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- 传感器的输出幅度可根据用户需要进行适当调节。
The output amplitude of the sensor can be adjusted according to users' requirements.
- 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 design in the different rated input current and the output voltage are available.

执行标准 Standards

- UL94-V0.
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000

总体参数 General data

	数值 Value	单位 Unit	符号 Symbol
工作温度 Operating temperature	-40 to +85	°C	TA
储存温度 Storage temperature	-40to +125	°C	TS
毛重(约) Mass (approx)	602	g	M

特性图 Characteristics chart

抗脉冲电压干扰特性
Effects of impulse noise

