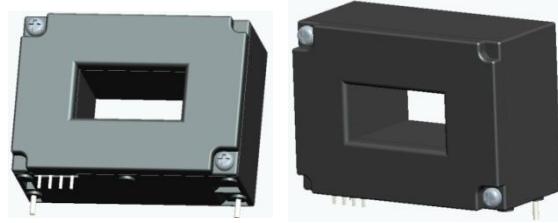


TKC-PZ 系列开环型霍尔电流传感器
TKC-PZ Series Open Loop Mode
Hall Effect Current Sensor



TKC-PZ 系列开环型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。

The TKC-PZ series open loop mode current sensor 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 DC, AC or pulsed currents.

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

型号 Type 参数 Parameter	TKC50 PZ	TKC100 PZ	TKC200 PZ	TKC300 PZ	TKC400 PZ	TKC500 PZ	TKC600 PZ	TKC800 PZ	单位 Unit						
额定输入电流 (Ip) Rated input (Ip)	±50	±100	±200	±300	±400	±500	±600	±800	A						
测量电流范围 (Ip) Measure range (Ip)	±150	±300	±600	±900	±900	±900	±900	±1000	A						
额定输出电压 Rated output	@Ip=± Ip							±4 ±1%	V						
电源电压 Supply voltage								±15 ±5%	V						
功耗电流 Power consumption								+25, -15	mA						
失调电压 Offset voltage								±25	mV						
磁失调电压 Magnetic offset	±30	±25 @Ip=± Ip-0							mV						
失调电压温漂 Offset drift	≤± 0.75	≤± 0.5							mV/°C						
输出电压温漂 Output drift	≤± 0.75	≤± 0.5							mV/°C						
线性度 Linearity	@Ip=0-± Ip							≤1	%FS						
响应时间 Response time	@50A/μ S, 10%-90%							≤3	μ S						
绝缘电压 Galvanic isolation	@ 50HZ, AC, 1min							2.5	kV						

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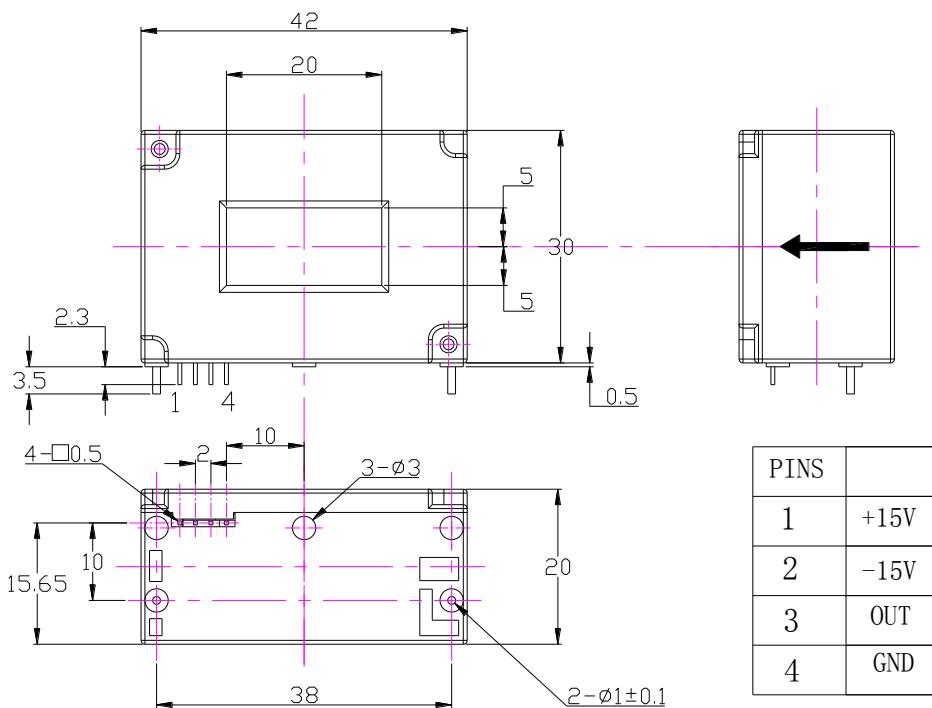
TKC-PZ Series Open Loop Mode

Hall Effect Current Sensor

应用 Applications

- 交流变速驱动器
AC variable speed drives
- 直流电机驱动静态转换器
Static converters for DC motor drives
- 变频调速系统
Variable speed drives
- 电焊机
Power supplies for welding applications
- 通讯电源
Battery supplied applications
- 不间断电源 UPS
Uninterruptible Power Supplies (UPS)
- 开关电源
Switched Mode Power Supplies (SMPS)

结构参数 Mechanical dimension(for reference only)



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)
2. 传感器的输出幅度可根据用户需要进行适当调节。
Customs can adjust Output amplitude of the sensor by needs.

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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 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	-40 to +125	°C	TS
毛重(约) Mass (approx)	80	g	M

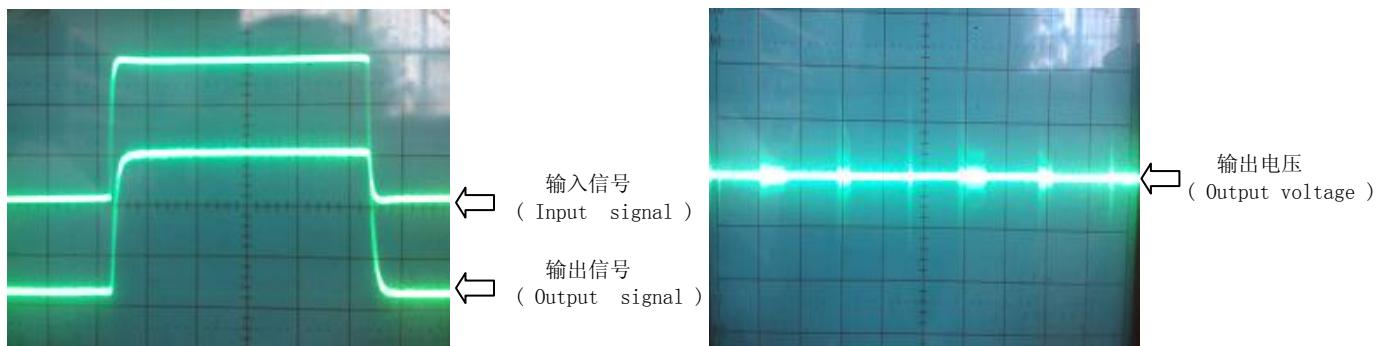
特性图 Characteristics chart

脉冲电流信号响应特性

Pulse current signal response

抗脉冲电压干扰特性

Effects of impulse noise



输入电流-输出电压特性

Input current-Output Voltage

