



TKC-BS1 系列开环型霍尔电流传感器的初、次级之间是绝缘的，用于控制、测量直流、交流和脉冲电流。

TKC-BS1 series current sensor 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.

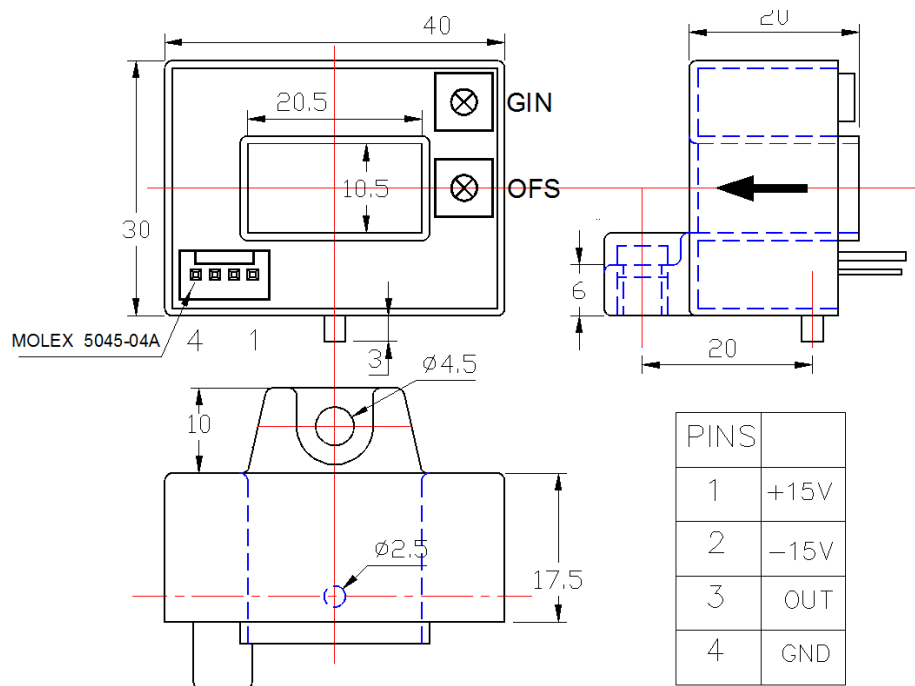
电参数 Electrical data (Ta=25°C±5°C, RL=10KΩ, CL=10000PF)

型号 Type 参数 Parameter	TKC50 BS1	TKC75 BS1	TKC100 BS1	TKC200 BS1	TKC300 BS1	TKC400 BS1	TKC500 BS1	TKC600 BS1	单位 Unit
额定输入电流 (I _p n) Rated input (I _p n)	±50	±75	±100	±200	±300	±400	±500	±600	A
测量电流范围 (I _p) Measure range (I _p)	±150	±225	±300	±600	±900	±900	±900	±900	A
额定输出电压 Rated output	@I _p =± I _p n ±4±1%								V
电源电压 Supply voltage	±15 ±5%								V
功耗电流 Power Consumption	+18, -10								mA
失调电压 Offset voltage	±25								mV
磁失调电压 Magnetic offset	±30	±25							mV
失调电压温漂 Offset drift	≤±1.5	≤±1.0							mV/℃
输出电压温漂 output drift	≤±1.5	≤±1.0							mV/℃
线性度 Linearity	@I _p =0-± I _p n ≤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

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. 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

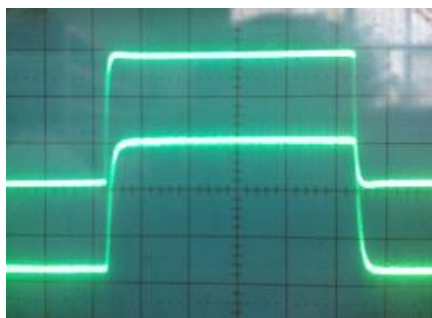
总体参数 General data

	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)	BS:65/BR:80	g	M

特性图 Characteristics chart

脉冲电流信号响应特性

Pulse current signal response characteristic

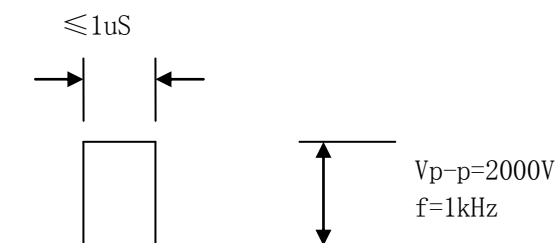
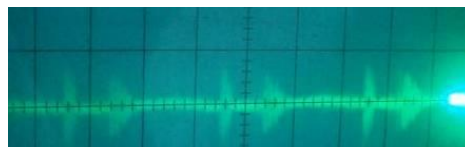


输入信号
(Input signal)

输出信号
(Output signal)

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 characteristic

