

**K4 系列开环型霍尔电流传感器**  
**K4 Series Open Loop Mode**  
**Hall Effect Current Sensor**

正角电子™



K4 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。

K4 series hall effect 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℃±5℃,RL=2KΩ,CL=1000PF)**

Type	K4-200A	K4-400A	K4-600A	K4-800A	K4-1000A	K4-1500A	单位 Unit
额定输入电流(Ipn) Rated current(Ipn)	±200	±400	±600	±800	±1000	±1500	A
测量电流范围(Ip) Measure range(Ip)	±400	±800	±1200	±1600	±2000	±2000	A
额定输出电压 Rated output	@Ip=±Ipn ±4±1%						V
电源电压 Supply voltage	±12, ±15						V
功耗电流 Power Consumption	<25						mA
失调电压 Offset voltage	@Ip=0 ±25						mV
磁失调电压 Magnetic offset	@Ip=±Ipn-0 ±30						mV
失调电压温漂 Offset drift	@-40~+85℃ ≤±1						mV/℃
输出电压温漂 Output drift	@-40~+85℃ ≤±1						mV/℃
线性度 Linearity	@Ip=0-±Ipn ≤1						%FS
响应时间 Response time	@50A/μS, 10%-90% ≤5						μs
绝缘电压 Galvanic isolation	@50HZ,AC,1min 5						KV



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**执行标准 Standards**

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

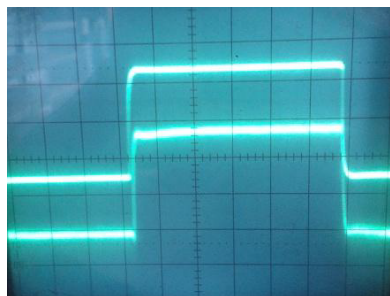
**总体参数 General date**

	数值 Value	单位Unit
工作温度 (TA) Operating temperature	-40 to +85	℃
储存温度 (TS) Storage temperature	-40 to +125	℃
毛重(约) (M) Mass(approx)	220	g

**特性图 Characteristics chart**

脉冲电流信号响应特性

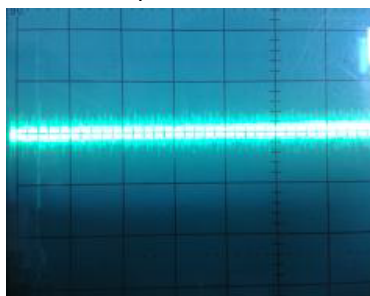
Pulse current signal response characteristic



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



输出电压  
(Output voltage)

输入电流-输出电压特性

Input current-Output Voltage characteristic

