






简介 Feature :

<ul style="list-style-type: none"> 应用开环原理制作的霍尔电流传感器 Open-loop current transducer using the hall effect 电流传感器的初、次级是绝缘的，能够测量直流，交流，脉冲等 For the electronic measurement of currents: DC, AC,pulsed,..., with galvanic separation between primary circuit and secondary circuit 供电：DC ±12 .. 15V Supply voltage: DC ±12 .. 15V 	    
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特性与应用 Advantages & Applications:

特性 Advantages	应用 Applications
<ul style="list-style-type: none"> ◇ 易安装 Easy installation ● 低功耗 Low power consumption ◇ 测量范围宽 Only one design for wide current ratings range ◇ 抗干扰能力强 High immunity to external interference ● 无插入损耗 no insertion losses 	<ul style="list-style-type: none"> ◇ 变频器应用 The application of variable frequency electrical appliances <ul style="list-style-type: none"> ● AC/DC 变速驱动 AC/DC variable-speed drive ◇ 开关电源 Switched Mode Power Supplies (SMPS) <ul style="list-style-type: none"> ● UPS 不间断电源 Uninterruptible Power Supplies (UPS) ◇ 逆变器上的应用 The applications of inverter

电气参数 Electrical data : (Ta=25°C , Vc=±15VDC,RL=10KΩ)

参数 Parameter	型号 Type		WHK50 BR15D4	WHK100 BR15D4	WHK200 BR15D4	WHK300 BR15D4	WHK400 BR15D4	WHK600 BR15D4	Unit
	符 号 Symbol								
额定输入 Rated input	IPN		50	100	200	300	400	600	A
测量范围 Measuring range	IP		0 ~ ±150	0 ~ ±300	0 ~ ±600	0 ~ ±900	0 ~ ±900	0 ~ ±900	A
输出电压 Output voltage	Vo		±4.0*(IP/IPN)						V
负载电阻 Load resistance	RL		>10						KΩ
供电电压 Supply voltage	VC		(±12 ~ ±15) ±5%						V
精度 Accuracy	XG	@IPN,T=25°C	< ±1.0						%
偏移电压 Offset voltage	VOE	@IP=0,T=25°C	< ±25						mV
零点温度漂移 Temperature variation of VOE	VOT	@IP=0,-40 ~ +85°C	< ±1.0						mV/°C
磁滞失调电压 Hysteresis offset voltage	VOH	@IP=0,after 1*IPN	< ±25						mV
线性度 Linearity error	εr		< 1.0						%FS
跟随精度 di/dt			> 100						A/μs
响应时间 Response time	tra	@90% of IPN	< 3.0						μs
静态功耗 Power consumption	IC		15						mA
带宽 Bandwidth	BW	@-3dB,IPN	DC-20						KHZ
绝缘电压 Insulation voltage	Vd	@50/60Hz, 1min,AC	2.5						KV

总体参数 General data :

参数 Parameter	符号 Symbol	数值 Value	单位 Unit
工作温度 Operating temperature	TA	-40 ~ +85	°C
储存温度 Storage temperature	Ts	-55~ +125	°C
重量 Mass	m	70	g
外壳材料 Plastic material	PBT G30/G15 , UL94- V0;		
标准 Standards	IEC60950-1:2001		
	EN50178:1998		
	SJ20790-2000		

结构参数 Dimensions(mm):

	<p>接线 Connection</p>
	<p>公差 General tolerance</p>
	<p>总公差 General tolerance: <math>< \pm 0.5\text{mm}</math> 初级过孔尺寸 Primary through-hole : 10.5*20.5±0.3 次级连接器型号 Connection of Secondary : 4 芯电缆线 长度 L=650mm 4 core cable Length L=650mm;</p>

备注 Remarks :

- 当被测电流通过传感器的初级引脚时，在输出端有对应的电压信号输出。（注意：错误的接线可能损坏传感器）
When the current will be measured goes through the primary pin of a sensor,the voltage will be measured at the output end.(Note:The false wiring may result in the damage the sensor).
- 可以根据客户的要求设计不同额定电流的产品，并且传感器的输出电压时可选择的；
Custom design in the different rated input current and the output voltage are available.
- 母排完全充满孔时，动态性能最佳；
The dynamic performance is the best when the primary hole if fully filled with;
- 初级导体温度不应超过 100°C；
The primary conductor should be <math>< 100^{\circ}\text{C}</math>;