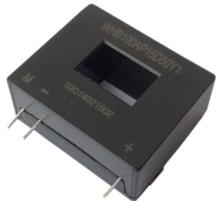


简介 Feature :

<ul style="list-style-type: none"> 应用闭环原理制作的霍尔电流传感器 Closed loop (compensated) 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，脉冲等 For the electronic measurement of currents: DC, pulsed,..., with galvanic separation between primary circuit and secondary circuit 供电：DC +9 .. 15V Supply voltage: DC +9 .. 15V 	 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   </div> <div style="text-align: center;">   </div> </div>
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特性与应用 Advantages & Applications:

特性 Advantages	应用 Applications
<ul style="list-style-type: none"> ◇ 高精度 Excellent accuracy ● 良好的线性 Very good linearity ◇ 低温漂 Low temperature drift ◇ 抗干扰能力强 High immunity to external interference ● 响应时间快 Optimized response time 	<ul style="list-style-type: none"> ◇ 电磁炉的电流监控与应用 The application of induction cooker ● AC/DC 变速驱动 AC/DC variable-speed drive ◇ 开关电源 Switched Mode Power Supplies (SMPS) ● 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=+9.0VDC)

参数 Parameter	型号 Type		WHB50 AP9S50	WHB100 AP9S50	WHB125 AP9S125	WHB200 AP9S100	Unit
	符 号 Symbol						
额定输入 Rated input	IPN		50	100	125	200	A
测量范围 Measuring range	IP		0 ~ +150	0 ~ +300	0 ~ +375	0 ~ +600	A
线圈匝比 Turns ratio	Np/ NS		1:1000	1:2000	1:1000	1:2000	T
输出电流 Output current rms	IS		+50*IP/IPN	+50*IP/IPN	+125*IP/IPN	+100*IP/IPN	mA
线圈内阻 Secondary coil resistance	RS		30	50	30	50	Ω
测量电阻 Inside resistance	RM		[(VC-0.6V)/(IS*0.001)]-RS				Ω
供电电压 Supply voltage	VC		(+9 ~ +15) ±5%				V
精度 Accuracy	XG	@IPN,T=25°C	< ±0.5				%
偏移电流 Offset current	IOE	@IP=0,T=25°C	< +0.2				mA
零点温度漂移 variation of IOE	IOT	@IP=0,-40 ~ +85°C	< ±0.005				mA/°C
线性度 Linearity error	εr		< 0.1				%FS
跟随精度 di/dt			> 100				A/μs
响应时间 Response time	tra	@90% of IPN	< 1.0				μs
静态功耗 Power consumption	IC		15+Is				mA
带宽 Bandwidth	BW	@IPN	DC-DC				KHZ
绝缘电压 Insulation voltage	Vd	@50/60Hz, 1min,AC	3.0				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	21	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(in mm):

<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>WHB-AP9S50/100</p> </div> <div style="text-align: center;"> <p>WHB125AP9S125</p> </div> </div>	<div style="text-align: center;"> <p>接线 Connection</p> </div> <hr/> <div style="text-align: center;"> <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 : <math>10.5 \times 16.2 \pm 0.15\text{mm}</math> 次级引脚尺寸 Secondary pin: 3pin $0.6 \times 0.65</math>$</math></p> </div>
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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流信号输出。（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 current 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流是可选择的；
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>;