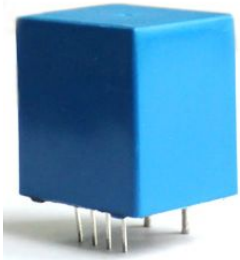





简介 Feature :

<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，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 安装方式：PCB 安装 PCB installation 	 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>ISO 14001</p> </div> <div style="text-align: center;"> <p>RoHS</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">  <p>ISO 9001</p> </div> <div style="text-align: center;">  <p>CE</p> </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，无插入损耗 Optimized response time, no insertion losses 	<ul style="list-style-type: none"> ◇ 变频器应用 The application of variable frequency electrical appliances ● 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=±15VDC)

参数 Parameter	型号 Type		WHB05 SYA15D20	WHB10 SYA15D20	WHB15 SYA15D20	WHB20 SYA15D20	WHB30 SYA15D20	WHB50 SYA15D20	Unit
	符 号 Symbol								
额定输入 Rated input	IPN		05	10	15	20	30	50	A
测量范围 Measuring range	IP		0~±10	0~±20	0~±30	0~±40	0~±60	0~±100	A
引脚尺寸 Size of Input pin	*d		Ø0.8	Ø0.8	Ø1.0	Ø1.4	Ø1.6	2×□1.6×1.5	mm
线圈匝比 Turns ratio	Np/ NS		4:1000	3:1500	2:1500	1:1000	1:1500	1:2500	T
测量电阻 Inside resistance	RM		50~400±0.1%						Ω
输出电流 Output current rms	IS		±20.0*(IP/IPN)						mA
供电电压 Supply voltage	VC		(±12 ~ ±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			> 50						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	@-3dB,IPN	DC-100						KHZ
绝缘电压 Insulation voltage	Vd	@50/60Hz, 1min,AC	5.0						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	12	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>I_{pn}<50A</p> </div> <div style="text-align: center;"> <p>I_{pn}=50A</p> </div> </div>	<div style="text-align: center;"> <p>接线 Connection</p> </div> <div style="text-align: center; margin-top: 10px;"> <p>公差 General tolerance</p> <p>总公差 General tolerance: <math>\pm 0.5\text{mm}</math> 次级引脚尺寸 Secondary Pin size :0.25*0.5±0.1mm</p> </div>
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备注 Remarks :

- 1,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).
- 2,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.