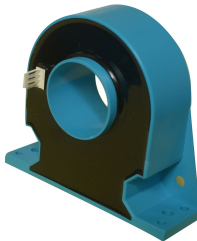






简介 Feature :

<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 .. 18V Supply voltage: DC ±12 .. 18V 	 <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; align-items: center;">   </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"> ◇ 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)

参数 Parameter	型号 Type		WHB50 LTA15D50	WHB100 LTA15D100	WHB200 LTA15D100	WHB300 LTA15D100	Unit
	符 号 Symbol						
额定输入 Rated input	IPN		50	100	200	300	A
测量范围 Measuring range	IP		0~±150	0~±300	0~±600	0~±900	A
线圈匝比 Turns ratio	Np/ NS		1:1000	1:1000	1:2000	1:3000	T
输出电流 Output current rms	IS		±50*IP/IPN	±100*IP/IPN	±100*IP/IPN	±100*IP/IPN	mA
线圈内阻 Secondary coil resistance	RS		15	15	22	38	Ω
测量电阻 Inside resistance	RM		[(VC-0.6V)/(IS*0.001)]-RS				Ω
供电电压 Supply voltage	VC		(±12 ~ ±18) ±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 Temperature 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	@-3dB,IPN	DC-200				KHZ
绝缘电压 Insulation voltage	Vd	@50/60Hz, 1min,AC	6.0				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	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(in mm):

WHB-LTA15D50/100M	WHB-LTA15D50/100S	接线 Connection
		<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 : $D 20.5 \pm 0.15$ 次级连接器型号 Connection of Secondary : M:2510-04A (代替 instead of MOLEX5045-04A) S :DG301-5.0-03P</p>

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流是可选择的;

Custom design in the different rated input current and the output current are available.

3,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;

4,初级导体温度不应超过 100°C ;

The primary conductor should be <math>< 100^{\circ}\text{C}</math>;