

HBA—TP系列霍尔电流传感器

(HBA-TP Hall-effect Current Sensor Series)

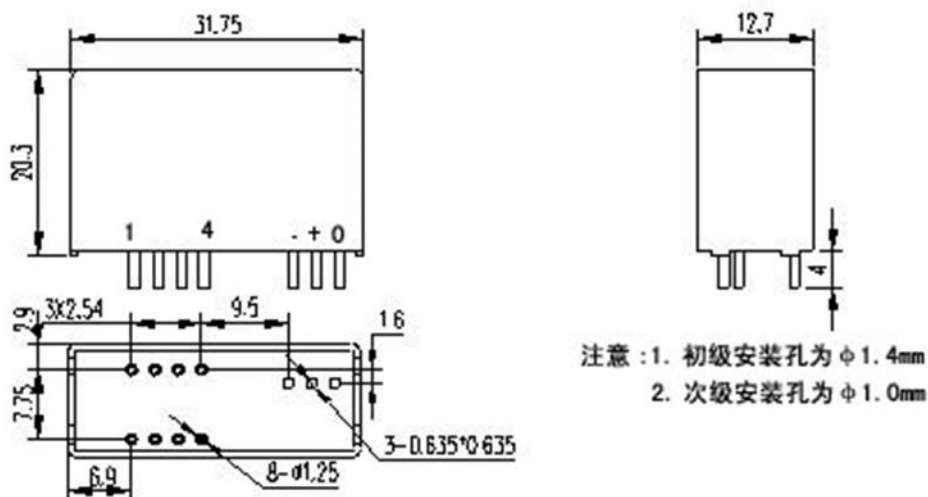
HBA-TP 系列霍尔电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流。

(HBA-TP Series Hall-effect Current Sensor between primary and secondary is insulated, can be used for the measurement of DC, AC and pulse current)

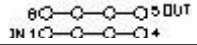
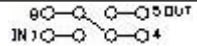
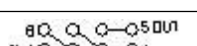
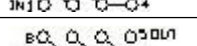
电气参数 (Electrical characteristics)				
	型号 Type	HBA25-TP	HBA50-TP	A
I _{pn}	额定输入电流 Rated input	25	50	A
I _{pm}	测量电流范围 Measuring range	50	100	A
R _m	测量电阻 Measuring resistance	54~360 (±15V)	68~180 (±15V)	Ω
K _N	匝比 Turns ratio	1-2-3-4: 1000	1-2-3-4: 1000	
I _{out}	输出电流 Rated output current	25	50	mA
R _s	次级线圈内阻 Secondary coil resistance	180	180	Ω
I _o	零电流失调 Zero offset current	<0.2		mA
V _c	供电电源 Supply voltage	±15±5%		V
I _c	静态功耗 Current consumption	≤15+I _{out}		mA
I _{ot}	零点温漂 Thermal drift of I _o	-40~+85℃	±0.5	mA
F	带宽 Frequency bandwidth(-3dB)	DC~100		KHz
ε _G	精度 Accuracy	±0.5		%
ε _L	线性度 Linearity	±0.1		%
di/dt	跟随精度	>50		A/μS

	Accurately followed		
Tr	响应时间 Response time	≤ 1	μS
Vd	绝缘电压 Insulation voltage	5	KV
Ta	工作温度 Ambient operating temperature	-40~+85	°C
Ts	储存温度 Ambient storage temperature	-40~+125	°C
M	重量 mass	280	g
	标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS	

机械参数 Dimensions (mm)



接线图

初级	初级接法 IPN(A)	峰值电流 IP(A)	输出电流 Is(mA)	初级引脚连线
1	25, 50	55, 100	25, 50	
2	12, 25	27, 50	24, 50	
3	8, 16	18, 33	24, 48	
4	6, 12	13, 25	24, 48	

端子标准：3. 52mm, 3pin 接线式连接器

引脚说明：1, +15V 2, -15V 3, IOUT

使用说明 Remarks

- 1、应用：通讯电源、不间断电源UPS、斩波器、电化学、整流、电源监测、电焊机、变频、开关电源、电池监测、电动机监测等领域。Application: communication power supply, uninterruptible power supply UPS chopper, electrochemical, rectifier, power monitoring, welding machines, inverter, switching power supply, battery monitoring, motor monitoring fields.
- 2、传感器的输出幅度可根据用户需要进行适当调节。The amplitude of the output of the sensor can be appropriately adjusted according to user needs.
- 3、可按用户需求定制不同额定输入电流和输出电压的传感器。Custom different rated input current and the output voltage of the sensor.