

HBA—CPS系列霍尔电流传感器

(HBA—CPS Hall-effect Current Sensor Series)

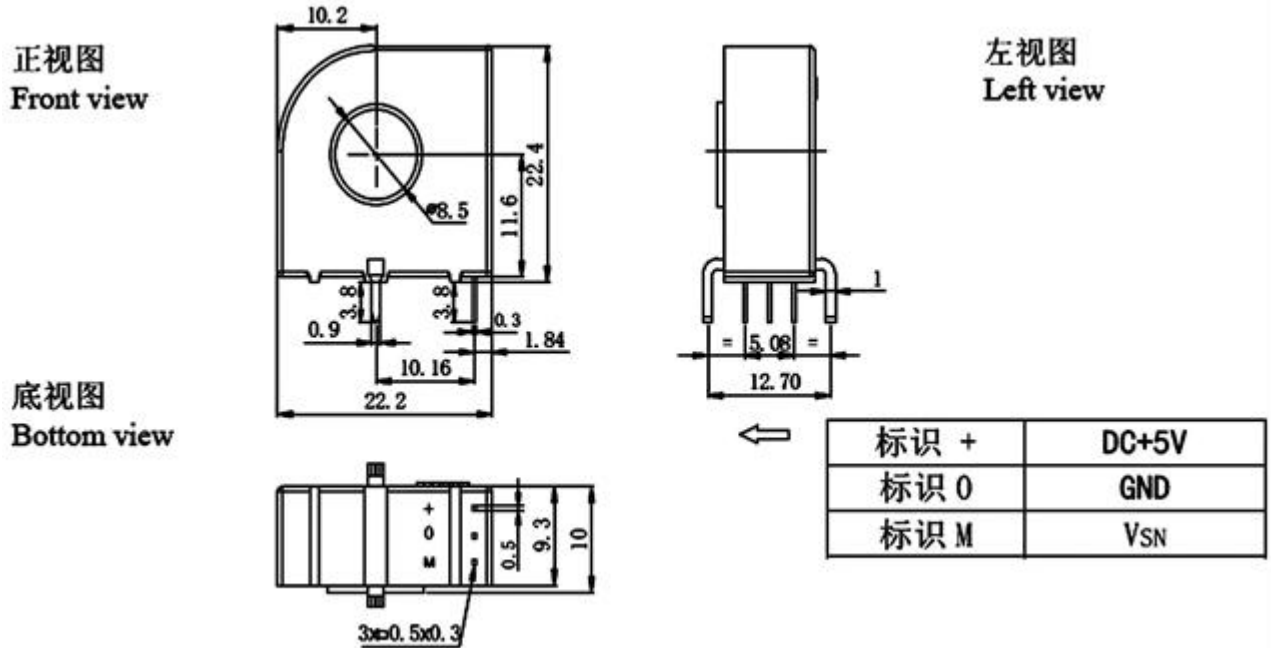
HBA—CPS 系列霍尔电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流。

(HBA—CPS 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	HBA2- CPS	HBA6- CPS	HBA10- CPS	HBA20- CPS	HBA30 -CPS		
I _{pn}	额定输入电流 Rated input	2	6	10	20	30	A	
I _{pm}	测量电流范围 Measuring range	±2	±6	±10	±20	±30	A	
R _m	内接测量电阻 Measuring resistance	100	50	25	12.5	12.5	Ω	
K _N	匝比 Turns ratio	1: 400	1: 600	1: 500	1: 500	1: 750		
V _{out}	输出电压 Rated output voltage	2.5 ± (2 × IP / IPN) ± 0.5%						V
V _o	零电压失调 Zero offset voltage	<20						mV
V _c	电源电压 Supply voltage	5 ± 5%						V
I _c	静态功耗 Current consumption	≤10						mA
I _{ot}	零点温漂 Thermal drift of I _o	≤0.05						mV/°C
F	带宽 Frequency bandwidth(-3dB)	DC~200						KHz
ε _G	精度 Accuracy	±0.5						%
ε _L	线性度 Linearity	±0.1						%
di/dt	跟随精度 Accurately followed	>50						A/μS
Tr	响应时间 Response time	≤1						μS
V _d	绝缘电压 Insulation voltage	3.0						KV
T _a	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	10	g
	标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS	

机械参数 Dimensions (mm)



功能管脚尺寸：3Pin(1234)，尺寸为 0.3*0.5mm
 安装管脚尺寸：2Pin，尺寸为 0.8*0.9mm

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.