

HCM300—YSA系列高精度磁通门电流传感器

(HCM300—YSA High- accuracy Fluxgate-effect Current Sensor Series)

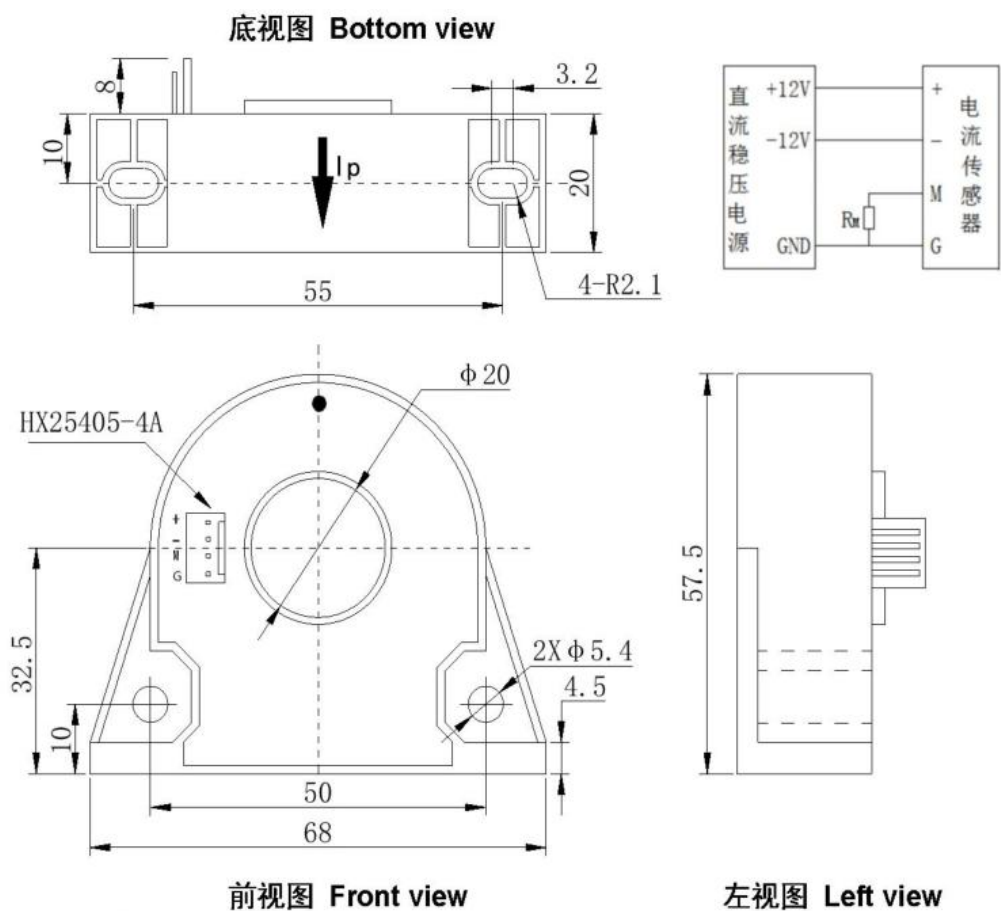
HCM300—YSA 系列磁通门电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流，具有良好的精度和线性度，可达 0.01%，可用于超高精度的电流测量。

(HCM300—YSA SSeries Fluxgate -effect Current Sensor between primary and secondary is insulated, can be used for the measurement of DC, AC and pulse current. Good accuracy and linearity, up to 0.01%, can be used for ultra-high accuracy current measurement)

电气参数 (Electrical characteristics)				
	型号 Type	HCM300—YSA		A
I _{pn}	额定输入电流 Rated input	300		A
I _{pm}	测量电流范围 Measuring range	330		A
R _m	测量电阻 Measuring resistance	@±15V 21		Ω
K _N	匝比 Turns ratio	1: 2000		
I _{out}	输出电流 Rated output current	150		mA
R _s	次级线圈内阻 Secondary coil resistance	28		Ω
I _o	零电流失调 Zero offset current	<0.015		mA
V _c	供电电源 Supply voltage	±15±5%		V
I _c	静态功耗 Current consumption	≤40+I _{out}		mA
I _{ot}	零点温漂 Thermal drift of I _o	-40~+85℃	±0.01	mA
F	带宽 Frequency bandwidth(-3dB)	DC~100		KHz
ε G	精度 Accuracy	±0.01		%
ε L	线性度 Linearity	±0.005		%
di/dt	跟随精度 Accurately followed	>100		A/ μ S
Tr	响应时间 Response	≤1		μ S

	time		
Vd	绝缘电压 Insulation voltage	5.0	KV
Ta	工作温度 Ambient operating temperature	-40~+85	℃
Ts	储存温度 Ambient storage temperature	-40~+105	℃
M	重量 mass	360	g
	标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS	

机械参数 Dimensions (mm)



端子标准：3.52mm, 4pin 插接式连接器

引脚说明：1, +15V 2, -15V 3, M 4, G

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.