

HBA—F1系列霍尔电流传感器

(HBA-F1 Hall-effect Current Sensor Series)

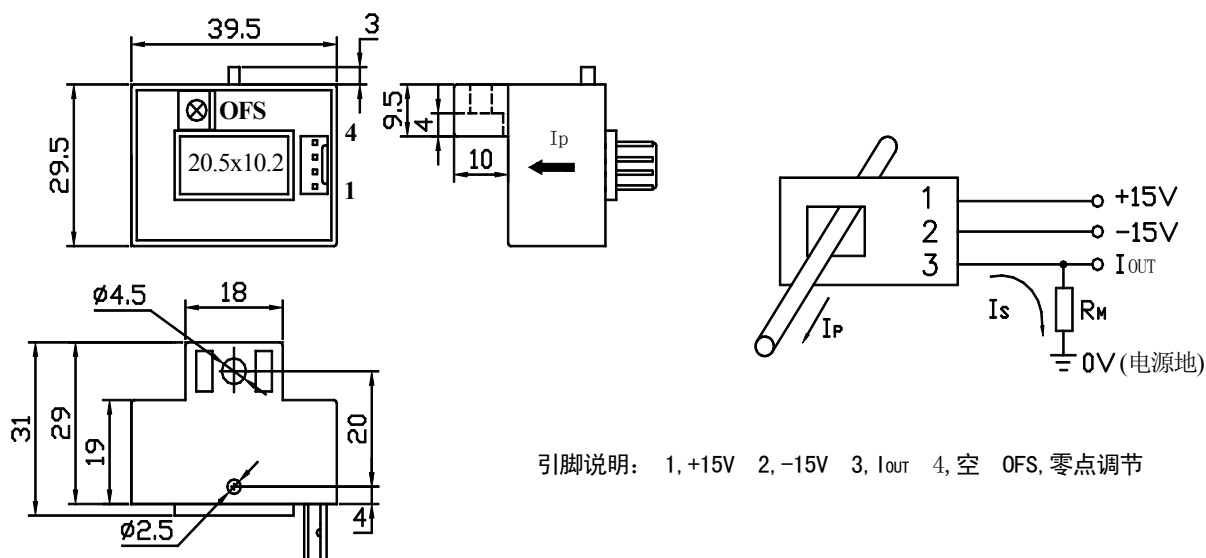
HBA-F1 系列霍尔电流传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电流。

(HBA-F1 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	HBA50-F1	HBA100-F1	HBA200-F1	HBA300-F1	A
I _{pn}	额定输入电流 Rated input	50	100	200	300	A
I _{pm}	测量电流范围 Measuring range	100	200	400	600	A
R _m	测量电阻 Measuring resistance	0-240	0-200	0-75	0-52	Ω
K _N	匝比 Turns ratio	1: 1000	1: 1000	1: 2000	1: 3000	
I _{out}	输出电流 Rated output current	50	100	100	100	mA
R _s	次级线圈内阻 Secondary coil resistance	20	20	25	35	Ω
I _o	零电流失调 Zero offset current	<0.2				mA
V _c	电源电压 Supply voltage	±15±5%				V
I _c	静态功耗 Current consumption	≤10+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~150				KHz
ε G	精度 Accuracy	±0.5				%
ε L	线性度 Linearity	±0.15				%
di/dt	跟随精度 Accurately followed	>200				A/ μ S
Tr	响应时间 Response time	≤1				μ S
V _d	绝缘电压 Insulation voltage	3.0				KV

Ta	工作温度 Ambient operating temperature	-40~+85	℃
Ts	储存温度 Ambient storage temperature	-40~+125	℃
M	重量 mass	35	g
	标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS	

机械参数 Dimensions (mm)



引脚说明： 1, +15V 2, -15V 3, I_{OUT} 4, 空 OFS, 零点调节

端子标准： 连接器 MOLEX-04A 压线端子（可选电缆输出）

使用说明 Remarks

- 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.
- 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.
- 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.