

FSK400C22 新能源电动汽车传感器

应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。

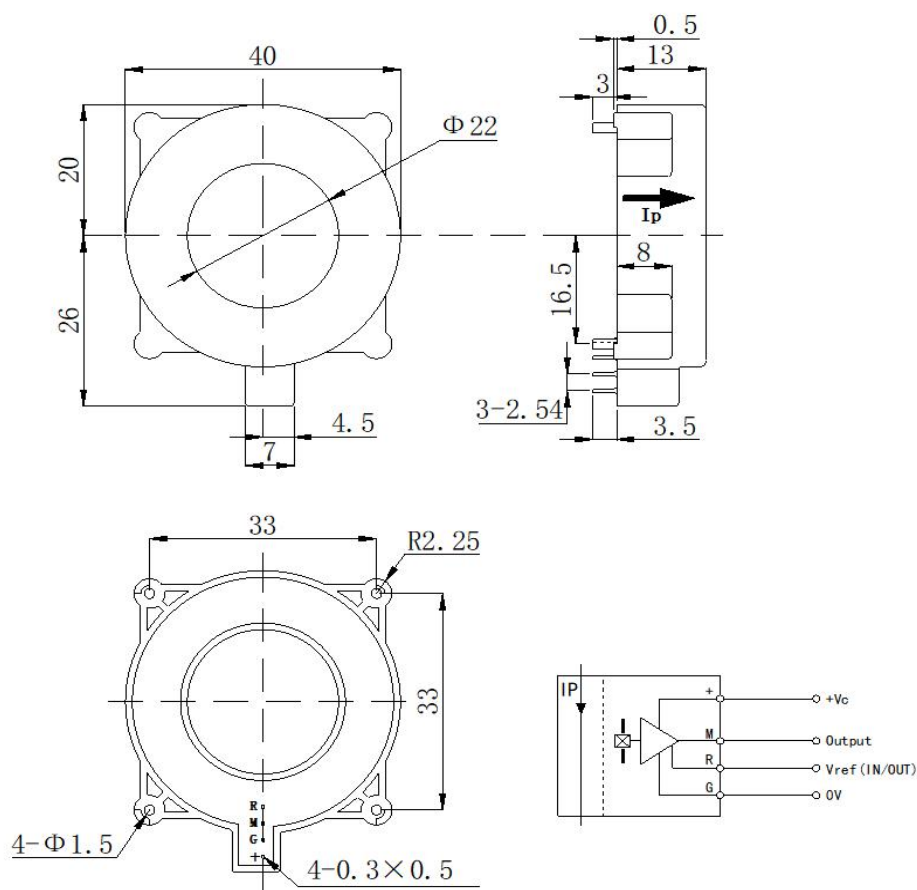
Open loop current sensor based on the principle of Hall-effect It can be used for measuring AC,DC,pulsed and mixed current.



电参数/Electrical characteristics								
	型 号 Type	FSK200C22	FSK300C22	FSK500C22	FSK600C22	FS800C22	FSK1000C22	
I _{PN}	原边额定输入电流 Primary nominal input current	200	300	500	600	800	1000	A
I _P	原边电流测量范围 Measuring range of primary current	0~±240	0~±360	0~±600	0~±720	0~±960	0~±1200	A
V _{SN}	副边额定输出电压 Secondary nominal output voltage	2.5±2						V
V _C	电源电压 Supply voltage	+5 (±5%)						V
I _C	电流消耗 Current consumption	<20						mA
V _d	绝缘电压 Insulation voltage	在原边与副边电路之间 2.5 KV 有效值/50Hz/1 分钟						
ε _L	线性度 Linearity	<1						%FS
V ₀	零点失调电压 Zero offset voltage	T _A =25℃	2.5±0.015					V
V _{OM}	磁失调电压 Residual voltage	I _{PN} →0	<±10					mV
V _{OT}	失调电压温漂 Thermal drift of V0	I _p =0 T _A =-25~+85℃	<±0.5					mV/℃
T _R	响应时间 Response time	≤5						μs
f	频带宽度(-3dB) Frequency bandwidth(-3dB)	DC~50						kHz
T _A	工作环境温度 Ambient operating temperature	-40~+125						℃
T _S	贮存环境温度 Ambient storage	-40~+150						℃

	temperature		
R_L	负载电阻 Load resistance	$\geq 10K$	Ω
	标准 Standard	GI/FS-0105	

机械安装尺寸 Mechanical installation dimension



使用说明/Remarks

- 错误的接线可能导致传感器损坏。传感器通电后，当被测电流从传感器箭头方向穿过，即可在输出端测得同相电压值。
Incorrect wiring may cause damage to the sensor. After the sensor is powered on, when the measured current passes through the arrow direction of the sensor, the in-phase voltage value can be measured at the output end.
- 传感器的输出幅度可根据用户需求进行适当的调节。
The output amplitude of the sensor can be adjusted according to the user's 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。
Sensors with different rated input current and output voltage can be customized according to user requirements.