

FS2500AX 系列霍尔电流传感器

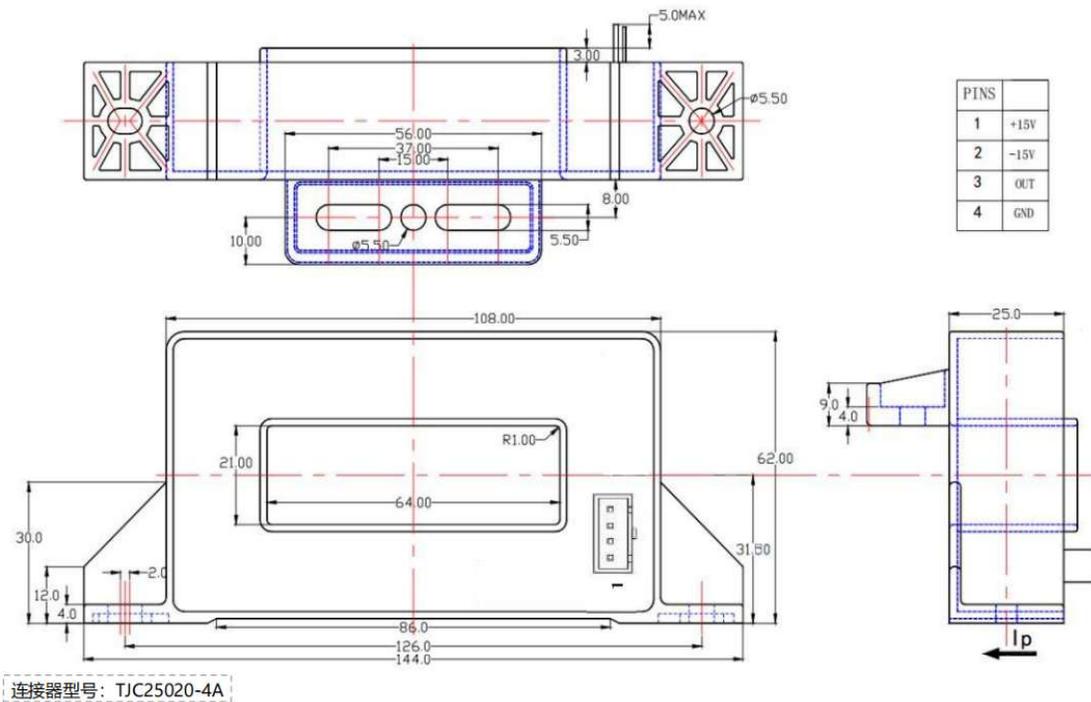
应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。

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	FS500AX	FS600AX	FS1000AX	FS1500AX	FS2000AX	FS2500AX	
I_{IN}	原边额定输入电流 Primary nominal input current	500	600	1000	1500	2000	2500	A
I_p	原边电流测量范围 Measuring range of primary current	0~±1500	0~±1800	0~±3000	0~±4500	0~±5000	0~±5000	A
V_{OUT}	副边额定输出电压 Nominal output voltage	4±1%						V
V_c	电源电压 Supply voltage	±15(±5%)						V
I_c	静态电流消耗 Static current consumption	$V_c=±15V$	<20					mA
V_d	绝缘电压 Insulation voltage	在原边与副边电路之间5KV有效值/50Hz/1分钟 5KV RMS /50Hz/1 min between primary and secondary side circuits						
ϵ_L	线性度 Linearity	<0.5						%
V_0	零点失调电压 Offset voltage	$T_A=25^\circ C$	<±20					mV
V_{out}	磁失调电压 Residual voltage	$I_{in} \rightarrow 0$	<±30					mV
V_{OT}	失调电压温漂 Thermal drift of V_0	$I_p=0$	$T_A = -40 \sim +85^\circ C$		<±0.5			mV/°C
T_R	响应时间 Response time	≤5.5						μs
T_A	工作环境温度 Ambient operating temperature	-40~+85						°C
T_S	贮存环境温度 Ambient storage temperature	-40~+125						°C
	标准 Standard	GI/FS-0105						

外形尺寸(mm)/Dimensions of drawing(mm)



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.