

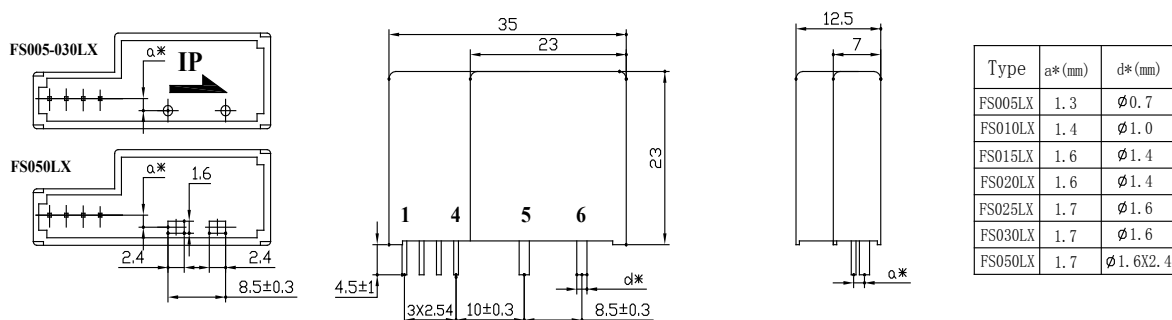


应用霍尔效应开环原理的电流传感器，能在电隔离条件下测量直流、交流、脉冲以及各种不规则波形的电流。
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

电参数/Electrical characteristics

| | 型号 Type | FS005LX | FS010LX | FS015LX | FS020LX | FS025LX | FS030LX | FS050LX | |
|--------------|--|-------------------------------------|---------|---------|---------|---------|---------|---------|-----|
| I_{PN} | 原边额定输入电流 Primary nominal input current | 5 | 10 | 15 | 20 | 25 | 30 | 50 | A |
| I_P | 原边电流测量范围 Measuring range of primary current | 0~±7.5 | 0~±15 | 0~±22.5 | 0~±30 | 0~±37.5 | 0~±45 | 0~±75 | 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 | ±12 ~ ±15(±5%) | | | | | | | V |
| I_C | 电流消耗 Current consumption | $V_C=±15V$ | | <10 | | | | mA | |
| V_d | 绝缘电压 Insulation voltage | 在原边与副边电路之间2.5KV 有效值/50Hz/1 分钟 | | | | | | | |
| R_{IS} | 绝缘强度 Insulation resistance | ≥500MΩ at 500V DC | | | | | | | |
| ϵ_L | 线性度 Linearity | <1 | | | | | | | %FS |
| V_0 | 零点失调电压 Offset voltage | $T_A=25^\circ C$ | | <±30 | | | | mV | |
| V_{OM} | 磁失调电压 Residual voltage | $I_{PN} \rightarrow 0$ | | <±20 | | | | mV | |
| V_{OT} | 失调电压温漂 Thermal drift of V_0 | $I_{PN}=0 T_A=-25 \sim +85^\circ C$ | | <±1.5 | | | | mV/C | |
| T_r | 响应时间 Response time | ≤3 | | | | | | | μs |
| f | 频带宽度(-3dB) Frequency bandwidth(-3dB) | DC ~ 20 | | | | | | | kHz |
| T_A | 工作环境温度 Ambient operating temperature | -25 ~ +85 | | | | | | | C |
| T_s | 贮存环境温度 Ambient storage temperature | -40 ~ +100 | | | | | | | C |
| R_L | 负载电阻 Load resistance | ≥10K | | | | | | | Ω |
| | 标准 Standard | GI/FS-0105 | | | | | | | |

外形尺寸 (mm) /Dimensions of drawing (mm)



引脚说明: 1,+15V 2,-15V 3,Vout 4,0V(电源地) 5,原边电流输入6,原边电流输出
Elucidation: 1:+15V 2:-15V 3:VOUT 4:0V 5:+IP 6: -IP

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。
- 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。
·Incorrect connection may lead to the damage of the sensor.
·VOUT is positive when the IP flows in the direction of the arrow.