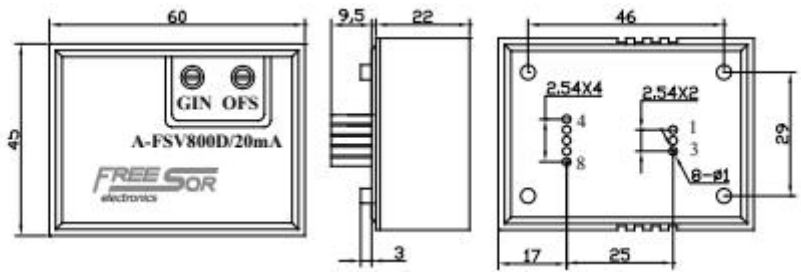
# A-FSV800D 系列霍尔交流电压传感器

应用霍尔效应闭环原理的电压传感器，能在电隔离条件下测量各种信号的电压。

The voltage sensor based on the closed-loop principle of Hall effect can measure the voltage of various signals under the condition of electrical isolation.

| 电参数/Electrical characteristics | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 型号<br>Type | A-FSV 050D | A-FSV 100D | A-FSV 200D | A-FSV 300D | A-FSV 400D | A-FSV 500D | A-FSV 800D | |
| $V_{PN}$ | 原边额定输入电压<br>Primary nominal input voltage | 50(AC) | 100(AC) | 200(AC) | 300(AC) | 400(AC) | 500(AC) | 800(AC) | V |
| $V_P$ | 原边电压测量范围<br>Measuring range of primary voltage | 0-100(AC) | 0-200(AC) | 0-400(AC) | 0-600(AC) | 0-800(AC) | 0-800(AC) | 0-800(AC) | V |
| $I_{SN}$ | 副边额定输出电流<br>Secondary nominal output current | 20(DC) | | | | | | | mA |
| $K_N$ | 匝数比<br>Conversion ratio | 3000： 1200 | | | | | | | |
| $R_M$ | 测量电阻<br>Measuring resistance | VC=±15V | | | | 54～360 | | | Ω |
| $V_C$ | 电源电压<br>Supply voltage | ±12～±15(±5%) | | | | | | | V |
| $V_d$ | 绝缘电压<br>Insulation voltage | 在原边与副边电路之间 2 .5KV 有效值/50Hz/1 分钟 | | | | | | | |
| $\varepsilon_L$ | 线性度<br>Linearity | <0.2 | | | | | | | %FS |
| X | 精度<br>Accuracy | TA =25 ℃ VC=±15V | | | | ±0.8 | | | % |
| $I_O$ | 零点失调电流<br>Zero offset current | TA =25 ℃ | | | | <±0.2 | | | mA |
| $I_{OT}$ | 失调电流温漂<br>Thermal drift of I0 | VP=0 TA =-25～+85℃ | | | | <±0.5 | | | mA |
| $T_r$ | 响应时间<br>Response time | <20 | | | | | | | ms |
| $T_A$ | 工作环境温度<br>Ambient operating temperature | -25～+85 | | | | | | | ℃ |
| $T_S$ | 贮存环境温度<br>Ambient storage temperature | -40～+100 | | | | | | | ℃ |
| $R_S$ | 输入内阻<br>Secondary coil resistance | 20K | 40K | 80K | 120K | 160K | 200K | 330K | Ω |
| | 标准<br>Standard | GI/FS-0105 | | | | | | | |

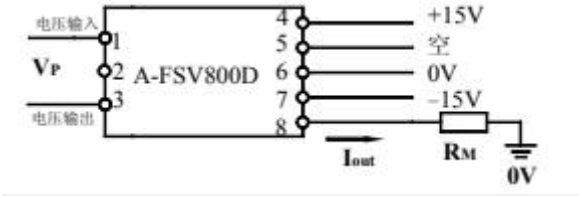
**外形尺寸（mm）/Dimensions of drawing(mm)**




OFS:零点调节　　GIN:幅度调节

OFS: zero adjustment　GIN: amplitude adjustment

**外部接线图/ Connection**




**使用说明/Remarks**

1. 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.

2. 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.

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。

Sensors with different rated input current and output voltage can be customized according to user requirements.