

FSV800D 系列霍尔电压传感器



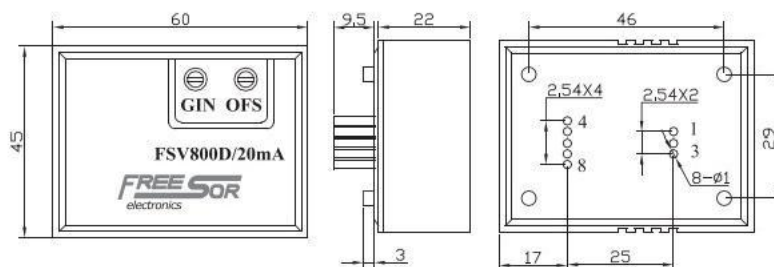
应用霍尔效应闭环原理的电压传感器，能在电隔离条件下测量各种信号的电压。

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 Type	FSV050D	FSV100D	FSV200D	FSV300D	FSV400D	FSV500D	FSV800D	
V_{PN}	原边额定输入电压 Primary nominal input voltage	± 50	± 100	± 200	± 300	± 400	500	± 800	A
V_P	原边电压测量范围 Measuring range of primary voltage	$0 \sim \pm 100$	$0 \sim \pm 200$	$0 \sim \pm 400$	$0 \sim \pm 600$	$0 \sim \pm 800$	$0 \sim \pm 1000$	$0 \sim \pm 1000$	A
I_{sN}	副边额定输出电流 Secondary nominal output current	$20 \pm 1\%$							mA
K_N	匝数比 Conversion ratio	4000:1000							
R_M	测量电阻 Measuring resistance	$V_c = \pm 15V$ 54~360							Ω
V_o	电源电压 Supply voltage	$\pm 12 \sim \pm 15 (\pm 5\%)$							V
V_a	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							
δ_L	线性度 Linearity	< 0.2							%FS
X	精度 Accuracy	$T_A = 25^\circ C$ $V_c = \pm 15V$ ± 0.8							%
I_o	零点失调电流 Zero offset current	$T_A = 25^\circ C$ $< \pm 0.2$							mA
I_{oT}	失调电流温漂 Thermal drift of I_o	IPN=0 $T_A = -25 \sim +85^\circ C$ $< \pm 0.5$							mA
T_r	响应时间 Response time	< 100							us
T_A	工作环境温度 Ambient operating temperature	$-25 \sim +85$							C
T_s	贮存环境温度 Ambient storage temperature	$-40 \sim +100$							C
R_s	副边线圈内阻	$T_A = 85^\circ C$ 50							Ω

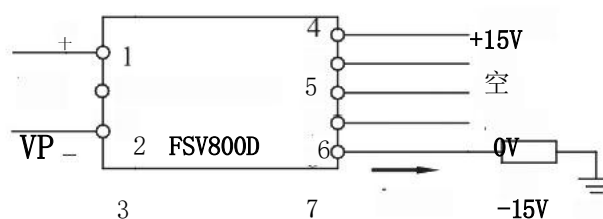
	Secondary coil resistance		
	标准 Standard	GI/FS-0105	

外形尺寸(mm)/Dimensions of drawing(mm)



OFS: 零点调节

外部接线图/Connection



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.