

FSV6000LV 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直流、交流和脉冲等各种信号的电压。

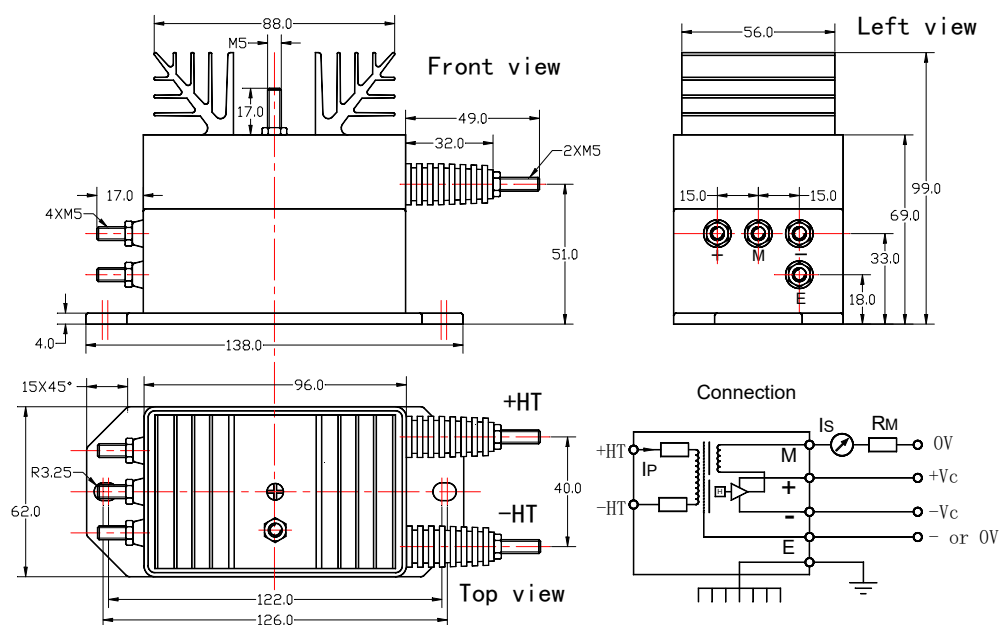
Voltage sensors applying the Hall effect closed-loop principle are capable of measuring the voltage of various signals such as DC, AC and pulses under galvanic isolation conditions.



电参数/Electrical characteristics									
	型号 Type	FSV300LV	FSV500LV	FSV1000LV	FSV2000LV	FSV3000LV	FSV4000LV	FSV6000LV	
V _{PN}	原边额定输入电压 Primary nominal input voltage	300	500	1000	2000	3000	4000	6000	V
V _P	原边电压测量范围 Measuring range of primary voltage	0~±600	0~±1000	0~±2000	0~±3000	0~±4500	0~±6000	0~±6000	V
P _P	总输入功耗 Total Input Power Consumption	1.5	1.25	2.5	5.0	7.5	10	11.6	W
K _N	匝数比 turns ratio	20000: 1000							T
I _{PN}	原边额定输入电流 Primary side rated input current	5.0	2.5						mA
I _{OUT}	副边额定输出电流 Nominal output current	50±0.5%							mA
R _M	测量电阻 Measurement of resistance	V _C =±15V V _P =±2.5mA 时: 50~200							
		V _C =±24V V _P =±2.5mA 时: 100~330							
V _C	电源电压 Supply voltage	±15~±24(±5%)							V
I _C	电流消耗 Current consumption	20+I _P X(K _N)							mA
V _d	绝缘电压 Insulation voltage	在原边与副边电路之间 12kV 有效值/50Hz/1 分钟							
ε _L	线性度 Linearity	<0.2							%FS
I ₀	失调电流 Out-of-regulation current	T _A =25℃ <±0.20							mA

I_{OT}	失调电流温漂 Thermal drift of current	$I_P=0 \quad T_A=-40\sim+85^{\circ}\text{C}$ $<\pm 0.6$							mA
T_r	响应时间 Response time	<200							us
T_A	工作环境温度 Ambient operating temperature	$-40\sim+85$							$^{\circ}\text{C}$
T_S	贮存环境温度 Ambient storage temperature	$-40\sim+125$							$^{\circ}\text{C}$
R_p	输入内阻 Input Internal Resistance	60K	200K	400K	800K	1.2M	1.6M	2.4M	Ω
R_s	副边线圈内阻 Internal resistance of the secondary coil	$T_A=85^{\circ}\text{C}$ 55							Ω
m	质量(约) Weight(approx)	855							g
	标准 standard	GI/FS-0105							

外形尺寸(mm)/Dimensions of drawing(mm)



使用说明/Remarks

1. Incorrect wiring of the sensor may result in damage to the module. The temperature of the primary conductor must not exceed 100°C .
2. After the sensor is energized, when the measured voltage is connected from the sensor input +HT terminal, the same phase current value can be measured at the output terminal.