

HV100-4000系列霍尔电压传感器

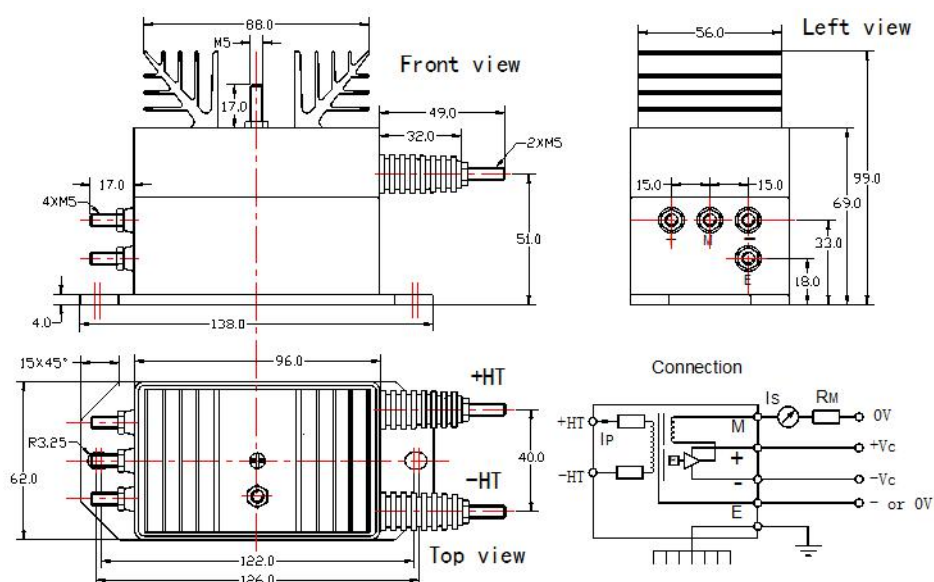
(HV100-4000 Hall-effect voltage Sensor Series)

HV100-4000 系列霍尔电压传感器的初、次级之间是绝缘的，可用于测量直流、交流和脉冲电压。
(HV100-4000 Series Hall-effect voltage Sensor between primary and secondary is insulated, can be used for the measurement of DC, AC and pulse voltage)

电气参数 (Electrical characteristics)							
	型号 Type	HV100-100	HV100-500	HV100-1000	HV100-2000	HV100-4000	
V _{pn}	额定输入电压 Rated input	100	500	1000	2000	4000	V
V _{pm}	测量电压范围 Measuring range	200	1000	2000	4000	6000	V
W _i	输入总功率	0.25	1.25	2.5	5	10	W
R _m	测量电阻 Measuring resistance	$\pm 15V$ V _{pn} 50(min) 200(max) $2XV_{pn}$ 0(min) 100(max) $\pm 24V$ V _{pn} 100(min) 330(max) $2XV_{pn}$ 100(min) 200(max)					Ω
I _{pn}	额定输入电流 Rated input	2.5					mA
K _N	匝比 Turns ratio	20000:1000					
I _{out}	额定输出电流 Rated output current	50					mA
R _s	次级线圈内阻 Secondary coil resistance	55					Ω
I _o	零电流失调 Zero offset current	<0.25					mA
V _c	电源电压 Supply voltage	$\pm 15 \sim 24 (\pm 5\%)$					V
I _c	静态功耗 Current consumption	$\leq 50 + I_{out}$					mA
I _{ot}	零点温漂 Thermal drift of I _o	-40~+85°C			±0.6		mA

F	带宽 Frequency bandwidth (-3dB)	DC~2000	Hz
ϵG	精度 Accuracy	± 0.5	%
ϵL	线性度 Linearity	± 0.1	%
Tr	响应时间 Response time	≤ 200	μS
Vd	绝缘电压 Insulation voltage	50HZ, 1min 初级-次极+屏蔽层 12.0 次极-屏蔽层 2.0	KV
Ta	工作温度 Ambient operating temperature	-40~+85	$^{\circ}C$
Ts	储存温度 Ambient storage temperature	-40~+125	$^{\circ}C$
M	重量 mass	800	g
	标准 Standards	EN50178\IEC61010-1\UL94-Vo\ROHS	

机械参数 Dimensions (mm)



使用说明 Remarks

- 1、 V_p 加到+HT端时， I_s 为正向输出；初级导体的温度不得超过 100°C 。
(I_s is positive when the V_p is applied to the terminal +HT. Temperature of the primary conductor should not exceed 100°C)
- 2、待测电压从传感器输入端接入，即可在输出端测得电压大小。（注意：错误的接线可能导致传感器损坏）
(When the voltage will be measured goes through a sensor, the current will be measured at the output end. (Note:The false wiring may result in the damage of the sensor))
- 3、传感器的输入输出幅度可根据用户需要进行适当调节。
(Adjust according to customer needs , Custom different rated input and the output of the sensor.)