

FSM006PT3.3 系列霍尔电流传感器

应用霍尔效应闭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。
The current sensor using the Hall effect closed-loop principle can measure DC, AC, pulse and various irregular wave forms of current under the condition of electrical isolation



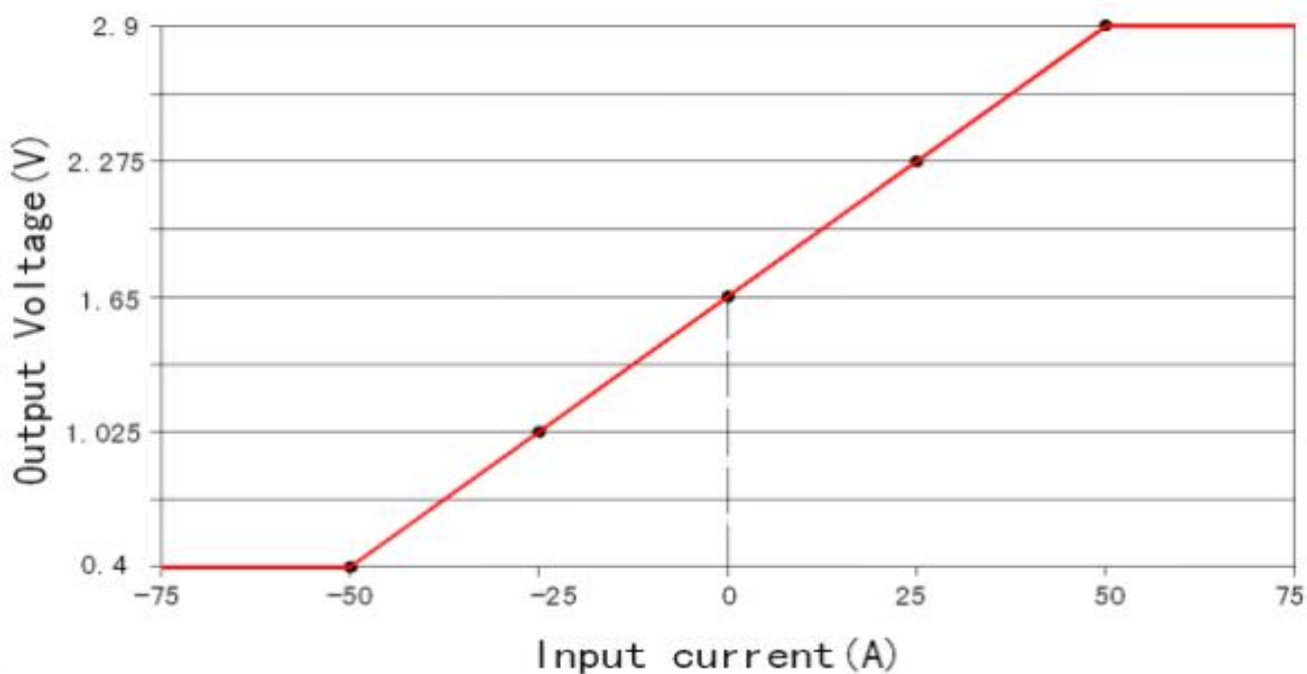
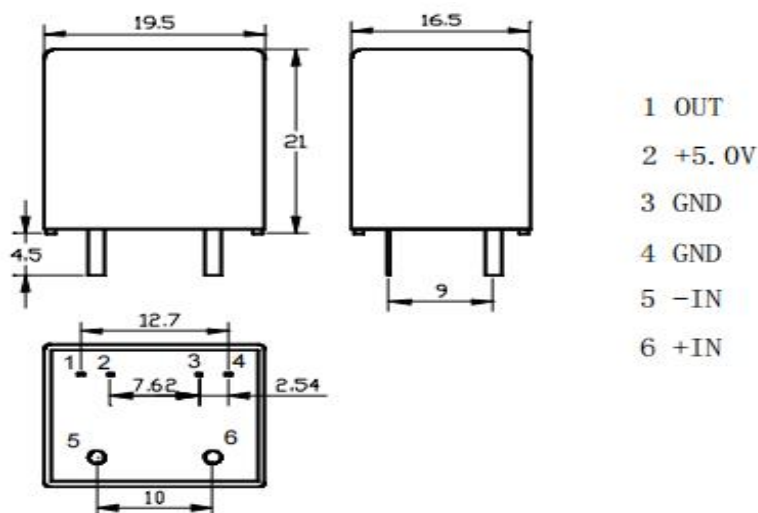
	型号/Type	FSM005PT3.3	FSM006PT3.3	FSM010PT3.3	FSM015PT3.3	FSM025PT3.3	
I _{PN}	原边额定输入电流 Primary nominal input current	5	6	10	15	25	A
I _P	原边电流测量范围 Measuring range of primary current	0~±12	0~±15	0~±24	0~±35	0~±50	A
	输入引脚尺寸 Enter the pin size	Φ1.0	Φ1.0	Φ1.0	Φ1.0	Φ1.4	mm
K _N	匝数比/Turns ratio	2: 1600	2: 1920	1: 1600	1: 1200	1: 1000	
R _M	内接测量电阻 Built-in measuring resistance	100±0.1%	100±0.1%	100±0.1%	50±0.1%	25±0.1%	Ω
V _{SN}	额定输出电压 Rated output voltage	0.625±0.5%					V
V _C	电源电压 Supply voltage	±3.3 {±5%}					V
I _C	静态功耗 Static power consumption	<10					mA
V _d	绝缘电压 Insulation voltage	在原边与副边电路之间2.5 KV有效值/50Hz/1分钟 2.5KV RMS /50Hz/1 min between primary and secondary side circuits					
ε _L	线性度 Linearity	<0.1					%FS
X	精度 Precision	±0.7					%
V ₀	零点失调电压 Offset voltage	1.65±0.010					V
V _{OT}	失调电压温漂 Thermal drift of V ₀	I _{PN} =0 T _A = -40~+85°C <±0.00 5					mA/°C
T _r	响应时间 Response time	<1					μ s
f	频带宽度(-3dB) Frequency bandwidth(-3dB)	DC~200					kHz
T _A	工作环境温度 Ambient operating temperature	-40~+85					°C
T _S	贮存环境温度 Ambient storage temperature	-40~+125					°C

◆电参数/Electrical characteristics

输入电流与输出电压的关系见下表：

The relationship between input current and output voltage is shown in the following table:

Input current (A)	-50	-25	0	25	50
Output voltage (V)	0.4	1.025	1.65	2.275	2.9



使用说明/Remarks:

1. 当待测电流从传感器穿过，即可在输出端测得电流大小。（注意：错误的接线可能导致传感器损坏）

When the current to be measured passes through the sensor, the current size can be measured at the output end. (Note: Incorrect wiring may cause sensor damage)

2. 可按用户需求定制不同额定输入电流和输出电流的传感器。

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

3. 上述的规格为标定规格，我公司可以根据客户的要求定制产品。

The above specifications are calibration specifications, our company can customize products according to customer requirements.