

FS***LTR5 系列霍尔电流传感器



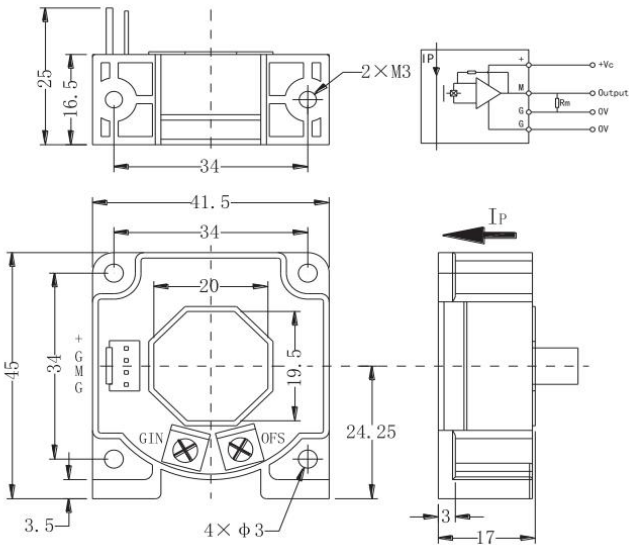
LTR5系列传感器是基于霍尔原理的一款开环电流传感器能够测量直流，交流，脉冲以及各种不规则电流等。传感器的输出能真实反映通电导体的真实波形。

The LTR5 series sensor is an open-loop current sensor based on the Hall principle that can measure DC, AC, pulse and various irregular currents. The output of the sensor can truly reflect the real waveform of the energized conductor.

电气特性/Electrical characteristics		
	FS100LTR5/FS500LTR5	
额定电流 IPN (A) Rated current	250A/500A	
测量范围 IP (A) Measuring range	0~±600A	
输出电压 Vo (V) Output voltage	2.5/ (1/2Vcc) ±2V	
电源电压 Vcc (V) Supply voltage	+5VDC±5%	
隔离电压 Isolation voltage	50Hz, 1min, 6kV	
动态特性/Dynamic characteristics		
零点偏移电压at +25℃ Zero offset voltage	2.5/ (1/2Vcc)	V
零点失调电压at +25℃ Zero offset voltage	±10	mV
偏移电压温漂 Offset voltage temperature drift	≤±0.5	mV/℃
线性度 Linearity	≤0.5	%FS
总精度 Overall accuracy	±1	%
响应时间 Response time	<5	μs
带宽 (−1db) Bandwidth	DC~100	kHz
一般特性/General features		
工作温度 Operating temperature	−40~+85	℃
储存温度 Storage temperature	−40~+125	℃
静态功耗 Static power consumption	<15	mA

实际重量 Actual weight	50	g
其 他 /others:		
认证 Authentication	CE	

结构图/Structure drawing (mm)



主要公差/Main tolerances:

总公差/Total common error : $\pm 0.5\text{mm}$
 竖直安装孔/Vertical mounting hole: 2个, M1.5mm
 产品孔径/Product aperture: Diameter --- 20.2mm

产品使用/Product use:

- 按照标定的正确电流方向进行安装测试，并在使用的过程中注意功能管脚的定义；
Carry out installation test according to the correct current direction of calibration, and pay attention to the definition of functional pins during use;
- 初级的导体完全充满初级孔径时动态表现 (di/dt 和相应时间) 为最佳效果；
The primary conductor performs best dynamically (di/dt and corresponding time) when fully filled with the primary aperture.
- 初级导体的温度不应超过100℃；
The temperature of the primary conductor should not exceed 100℃.
- 可以根据客户的需要来决定是否需要参考端；
The reference terminal can be determined according to the needs of the customer.
- 我公司可以根据客户的要求要定制产品。
Our company can customize products according to customer requirements.