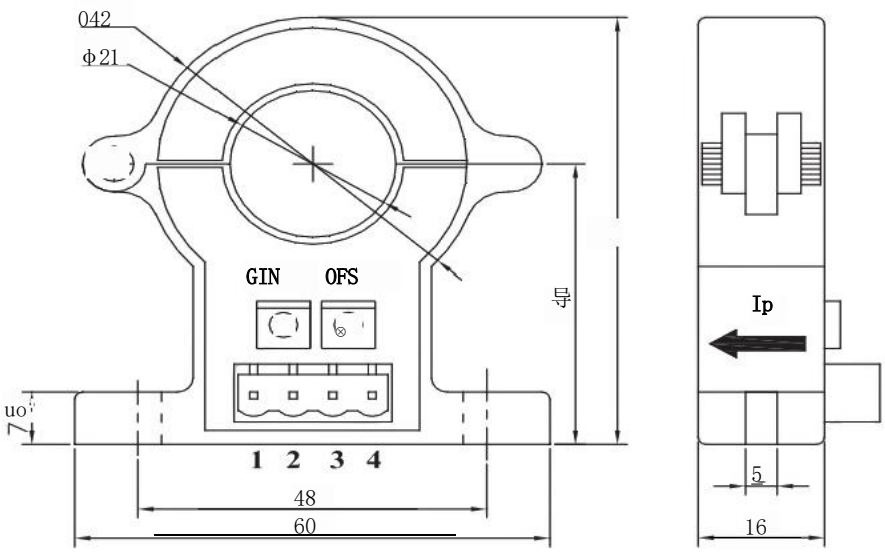
FS500EK1T系列霍尔可拆电流传感器

应用霍尔效应开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 open-loop principle can measure DC, AC, pulse and various irregular waveforms of current under the condition of electrical isolation.

电参数/Electrical characteristics								
	型号	FS050EK1T	FS100EK1T	FS200EK1T	FS300EK1T	FS500EK1T	FS600EK1T	
IpN	原边额定输入电流 Rated input current on primary side	50	100	200	300	500	600	A
Ip	原边电流测量范围 @+5V/2.5±2V Primary current measurement range	0～60	0～120	0～240	0～360	0～600	0～720	A
Iour	副边额定输出电压 Rated output voltage of secondary side	2.5±2						V
Vc	电源电压 Supply voltage	+5						V
Ic	电流消耗 Current consumption	<25						mA
Va	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						
eL	线性度 Linearity	±1						%FS
Io	零点失调电压 Zero offset voltage	T=25℃	<±25					mV
Iom	磁失调电压 Magnetic offset voltage	Iw→0	<10					mV
Ior	失调电压温漂 Offset voltage temperature drift	Ip=0 TA=-25～+85℃	<0.5					mV/℃
Tr	响应时间 Response time	≤7						μs
f	频带宽度(-3dB) Band width (-3dB)	DC～20						kHz
TA	工作环境温度 Operating ambient temperature	-40～+100						℃
Ts	贮存环境温度 Storage ambient temperature	-40～+125						℃
g	重量 Weight	68						g
	标准 Standard	SJ 20790-2000;JB/T 7490-2007						

外形尺寸(mm)/Dimensions of drawing(mm) **外部接线图/External connection diagram**



引脚说明：1,+5V 2,0V(电源地)3,Vour 4,0V(电源地)OFS,零点调节GIN,幅度调节

Pin description: 1,+5V 2,OV(power source)3,Vour 4,0V(power source)OFS, zero adjustment GIN, amplitude adjustment

使用说明/Instructions

1. 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..
2. 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.
3. 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.