

## WCS11C系列

$I_p = 100 \dots 1000A$



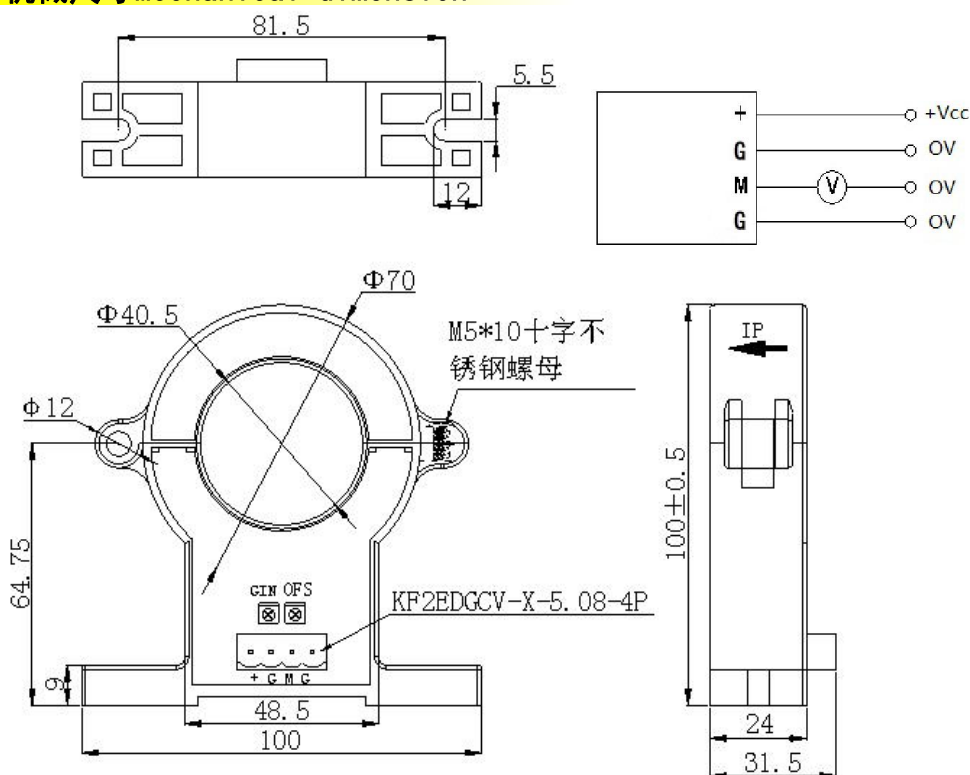
### 产品特点 Products Features

- 安装方便  
Easy mounting
- 体积小, 节省空间  
Small size and space saving
- 无插入损耗  
No insertion losses
- 抗干扰能力强  
High immunity to external interference

### 应用领域 Applications

- 交流变频驱动器  
AC variable speed drives
- 直流电机驱动静态转换器  
Static converters for DC motor drives
- 通讯电源  
Battery supplied applications
- 不间断电源 (UPS)  
Uninterruptible Power Supplies
- 开关电源 (SMPS)  
SWITCHED Mode Power Supplies
- 电焊机  
Power supplies for welding applications

### 机械尺寸 Mechanical dimension



### 机械特性 Mechanical characteristics

一般公差  
General tolerance  
 $\pm 0.5 \text{ mm}$

其它公差执行  
Other tolerance execution  
GB/T 1804-2000-M

固定孔尺寸  
Fixing hole size  
 $\Phi 5.5 \text{ mm}$

紧固螺丝  
Fastening steel screw  
M5

建议紧固扭矩  
Recommended fastening torque  
2.0Nm ( $\pm 10\%$ )

连接器  
Connection of secondary  
KF2EDGCV-X5.08-4P

### 注意 Remarks

- 错误的接线可能导致传感器损坏。  
The false wiring may result in the damage of the sensor.
- $I_p$ 方向与产品箭头方向一致时, 输出电压为正极。  
 $V_{out}$  is positive when  $I_p$  flows in the direction of the arrow.
- 当初级导体完全充满初级孔径时动态表现 ( $di/dt$ 和响应时间) 为最佳效果。  
Dynamic performances ( $di/dt$  and response time) are best with a single bar completely filling the primary hole.
- 初级导体的温度不应超过  $100^\circ\text{C}$ 。  
Temperature of the primary conductor should not exceed  $100^\circ\text{C}$ .

**电气参数Electrical data** WCS11C-xxxA除非另有说明, 否则环境参数均为@  $T_A = 25^{\circ}\text{C}$ ,  $R_L = 10\text{ k}\Omega$ 

型号 Type	WCS11C- 100A	WCS11C- 200A	WCS11C- 500A	WCS11C- 800A	WCS11C- 1000A
额定测量电流 $I_{PN}$ Rated input	$\pm 100\text{A}$	$\pm 200\text{A}$	$\pm 500\text{A}$	$\pm 800\text{A}$	$\pm 1000\text{A}$
测量范围 $I_{PM}$ Measure range	$\pm 200\text{A}$	$\pm 400\text{A}$	$\pm 1000\text{A}$	$\pm 1200\text{A}$	$\pm 1200\text{A}$
额定输出电压 $V_{OUT}$ Rated output voltage	2.5V+2V				
零点失调电压 $V_0$ Offset voltage	$2.5\text{V} \pm 20\text{mV}$				
电源电压 $V_C$ Supply voltage	+12V DC ( $\pm 5\%$ )				
负载电阻 $R_M$ Load resistance	$\geq 10\text{K}\Omega$				
线性度 $\epsilon_L$ Linearity	$\leq 0.5\%FS$				
总体精度 $X$ Overall accuracy	$\pm 1\%FS$				
零点失调电压温漂 $V_{OUT}$ Offset voltage drift	$\pm 0.2\text{mV}/^{\circ}\text{C}$				
幅度电压温度漂移 $V_{OUT}$ Amplitude voltage temperature drift	$\leq 0.05\%/^{\circ}\text{C}$				
静态电流消耗 $I_C$ Current consumption	$\leq 30\text{mA}$				
响应时间 $T_R$ Response time	$< 10\mu\text{s}$				
频带宽度 $BW$ Frequency bandwidth-3db	DC				
$di/dt$ 跟随精度 $di/dt$ accurately followed	$> 10\text{A}/\mu\text{s}$				
绝缘耐压 $V_D$ Galvanic isolation	50Hz, 1min, 5KV				
工作环境温度 $T_A$ Ambient operating temperature	$-40 \sim +85^{\circ}\text{C}$				
储存环境温度 $T_s$ Ambient storage temperature	$-40 \sim +95^{\circ}\text{C}$				
质量 $m$ Mass	$\approx 280\text{g}$				
执行标准 Standards	JB/T 7490-2007				

**定制Customized**

这是一个标准的产品, 需要其他规格 (测量电流、电源电压、输出电压、连接器、转换比率等) 请联系我们。  
This is a standard model. For different versions (IP, supply voltages, output voltages, connection of secondary, turns ratios...), please contact us.

**联系方式Contact information**

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