



## WCS09C

### $I_p=100\ldots600A$



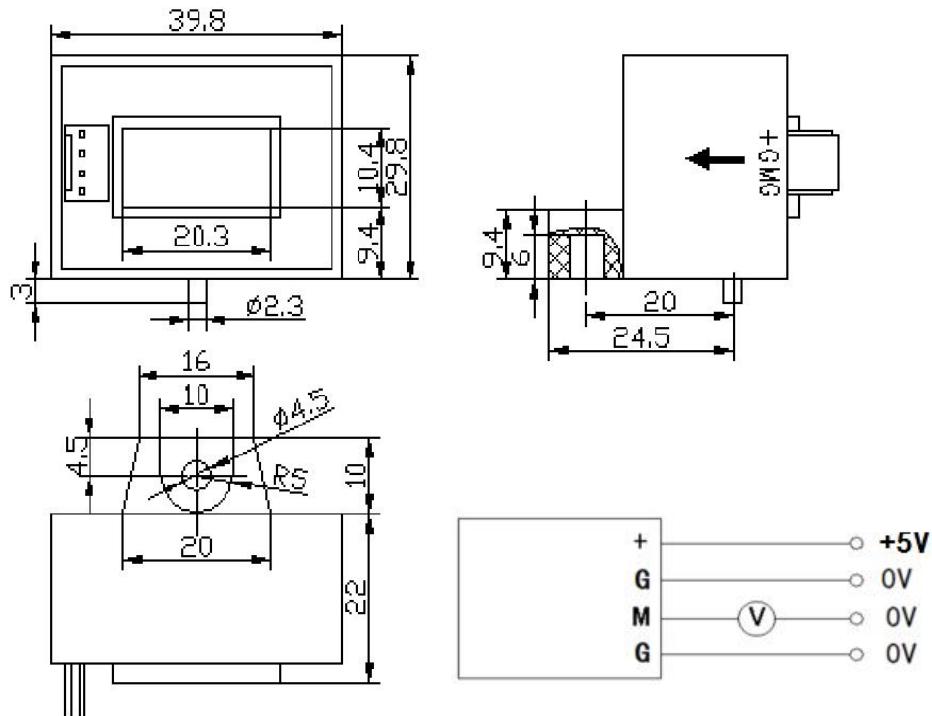
#### 产品特点 Products Features

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

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  
± 0.5 mm  
  
其它公差执行  
Other tolerance execution  
GB/T 1804-2000-M

固定孔尺寸  
Fixing hole size  
Ø 4.5mm

紧固螺丝  
Fastening steel screw  
M4

建议紧固扭矩  
Recommended fastening torque  
0.75Nm (± 10 %)

连接器  
Connection of secondary  
HX25405-4A

#### 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°C。

Temperature of the primary conductor should not exceed 100° C.

**电气参数 Electrical data      WCS09C**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	WCS09C-XXXX				
额定测量电流 $I_P$ Rated input	100A	200A	400A	500A	600A
测量范围 $I_{PM}$ Measure range	110A	220A	440A	550A	660A
额定输出电压 $V_{OUT}$ Rated output voltage	$1/2V_C \pm 2.0V$				
零点失调电压 $V_0$ Offset voltage	$1/2V_C \pm 10mV$				
电源电压 $V_C$ Supply voltage	$+5VDC (\pm 5\%)$				
负载电阻 $R_M$ Load resistance	$\geq 10K\Omega$				
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	$\pm 0.3mV/^\circ C$				
幅度电压温度漂移 $V_{OUT}$ Amplitude voltage temperature drift	$\leq 0.05\%/^\circ C$				
静态电流消耗 $I_C$ Current consumption	$\leq 20mA$				
响应时间 $T_R$ Response time	$< 7\mu s$				
频带宽度 BW Frequency bandwidth-3db	$DC \sim 20KHz$				
$di/dt$ 跟随精度 $di/dt$ accurately followed	$> 50A/\mu s$				
绝缘耐压 $V_D$ Galvanic isolation	$50Hz, 1min, 2.5KV$				
工作环境温度 $T_A$ Ambient operating temperature	$-20 \sim +85^\circ C$				
储存环境温度 $T_s$ Ambient storage temperature	$-25 \sim +90^\circ C$				
质量 m Mass	$\approx 60g$				
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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