

# WCG58L-1A

$I_p=1A$



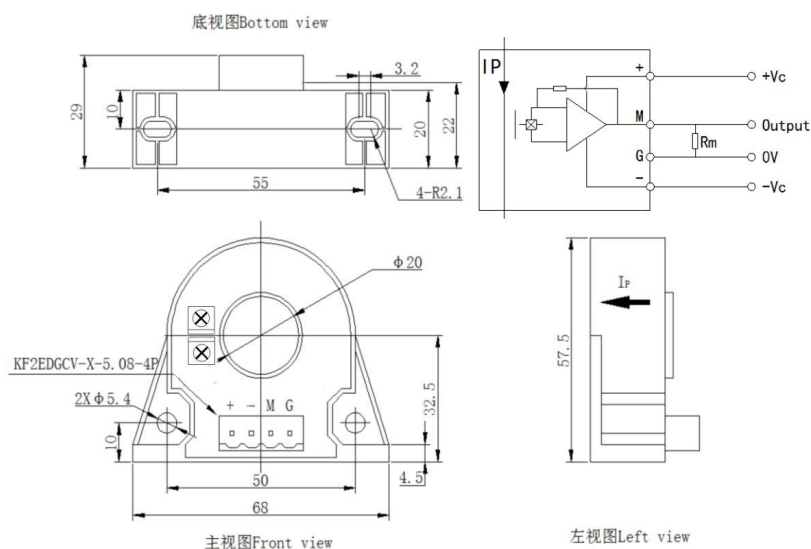
## 产品特点 Products Features

- 安装方便  
Easy mounting
- 体积小, 节省空间  
Small size and space saving
- 低温漂  
Low temperature drift
- 高精度  
Excellent accuracy

## 应用领域 Applications

- 计量检定与校准  
Metrological verification and calibration
- 实验室电流测量  
Laboratory current measurement
- 仪器仪表 (如功率分析仪)  
Instrumentation (e.g. power analyzer)
- 医疗设备 (如核磁共振MRI)  
Medical equipment (e.g. MRI)
- 电池组检测  
Battery pack detection
- 电力控制  
Power control

## 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  
 $\phi 4.2 \text{ mm}$

紧固螺丝  
fastening steel screw  
M4

建议紧固扭矩  
Recommended fastening torque  
1.5Nm ( $\pm 10\%$ )

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 $100^\circ\text{C}$ 。  
Temperature of the primary conductor should not exceed  $100^\circ\text{C}$ .

**电气参数Electrical data WCG58L-1A**

除非另有说明，否则环境参数均为@  $T_A = 25^\circ\text{C}$ ，

|   |  |
|---|--|
| 型号<br>Type  | WCG58L-1A  |
| 额定测量电流 $I_P$<br>Rated input                                       | $\pm 1\text{A}$                                    |
| 测量范围 $I_{PM}$<br>Measure range                                    | $\pm 1.2\text{A}$                                  |
| 额定输出电流 $I_S$<br>Rated output current                              | 20mA   |
| 转换比率 $K_N$<br>Conversion ratio                                    | /  |
| 测量电阻 $R_M$ (@ $\pm 12\text{V}$ , @ $I_{PM}$ )<br>Measure resister | $\leq 200\ \Omega$                                 |
| 总体精度 $\chi$ @ $I_P$<br>Overall accuraty                           | $\pm 0.02\%$                                       |
| 静态电流消耗 $I_C$<br>Current consumption                               | $\leq 50\text{mA}$ (@ $\pm 12\text{V}$ , $I_P=0$ ) |
| 电源电压 $V_C$<br>Supply voltage                                      | $\pm 12\text{VDC}$ ( $\pm 5\%$ )                   |
| 零点失调电流温漂 $I_{OT}$<br>Offset current drift                         | $\leq 0.01\text{mA}$                               |
| 零点失调电流 $I_O$<br>Offset current                                    | $\pm 0.004\text{mA}$                               |
| 频带宽度 $BW$<br>Frequency bandwidth-3db                              | DC-1 Hz  |
| 线性度 $\epsilon_L$<br>Linearity                                     | $\leq 0.004\%FS$                                   |
| $di/dt$ 跟随精度<br>$di/dt$ accurately followed                       | /  |
| 响应时间 $T_R$<br>Response time                                       | $< 200\text{ms}$                                   |
| 质量 $m$<br>Mass  | $\approx 360\text{g}$                              |
| 绝缘耐压 $V_D$<br>Galvanic isolation                                  | 50Hz, 1min, 6KV                                    |
| 工作环境温度 $T_A$<br>Ambient operating temperature                     | $-40\sim+85^\circ\text{C}$                         |
| 储存环境温度 $T_S$<br>Ambient storage temperature                       | $-40\sim+95^\circ\text{C}$                         |
| 执行标准<br>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 ( $I_P$ , supply voltages, output voltages, connection of secondary, turns ratios...), please contact us.

**联系方式Contact information**

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