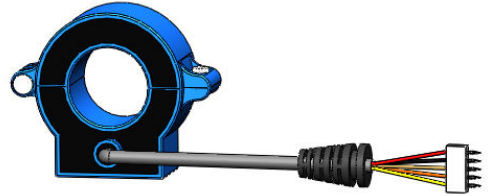


Split Core Hall effect Current Sensor

SCY15C



Product description

Features

- Based on Hall effect measurement principle, open loop circuit mode.
- The isolation voltage between primary and secondary is greater than 3000VAC.
- Can be opened and closed up and down, no need to disassemble the busbar, easy to install.
- Dual channel measurement in one sensor, high channel measure 0~750A, 0~1000A, low channel measure 0~75A, 0~100A.
- Comply with UL94-V0 flame retardant rating.
- Use automotive-specific lead connector output

Performance

- It can measure DC, AC, pulse, and various irregular waveform currents of cable conductors under isolation conditions.
- Wide measurement range, fast response speed, low zero drift, low temperature drift, high accuracy and good linearity.
- Dynamic performance (di/dt and response time) is optimal when the busbar is fully filled with primary perforations.
- Strong ability to resist external electromagnetic interference (BCI, EFT, CS, CE, ESD, dv/dt, etc.).

Application

- It can be widely used in communication power supply, UPS, photovoltaic inverter, electric vehicle drive and other products.

Implementation standards

- GB/T 7665-2005
- JB/T 7490-2007
- JB/T 25480-2010
- JB/T 9473-2020
- SJ 20792-2000



Certification

Shenzhen SoCan Technologies Co.,Ltd

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Technical Parameters

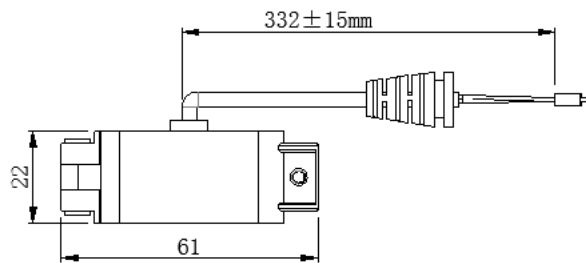
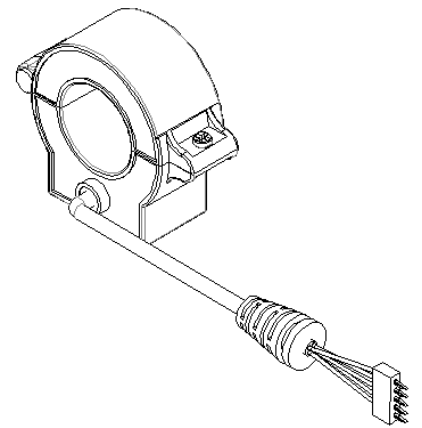
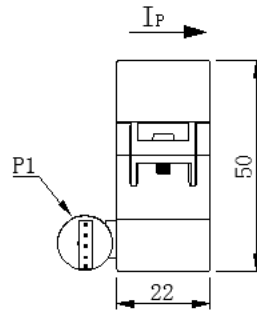
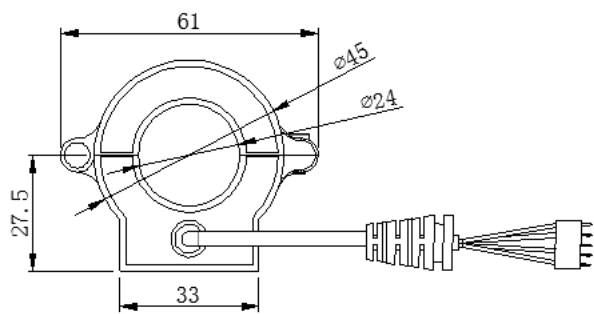
| Parameters(25°C) | Model | SCY15C- | |
|---|-------|---------|--------|
| | | 750A | 1000A |
| High Primary Current (I _{PH}) | | 750A | 1000A |
| Low Primary Current (I _{PL}) | | 75A | 100A |
| Saturation Current (I _P) | | 750AT | 1000AT |

Electrical Data

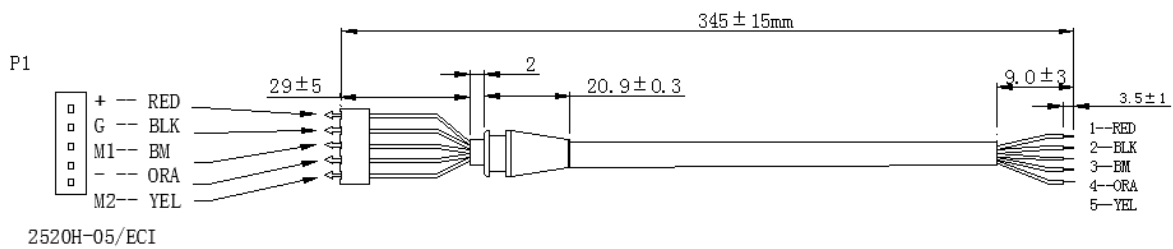
| Item | Min. | Typical | Max. | Unit |
|---|---|---------|-------|------------------|
| Input power supply voltage range V _c (±5%) (Remark 1, Remark 2) | - | ±5 | - | V _{DC} |
| Current consumption I _c | - | ±25 | ±30 | mA |
| Withstand resistance R _{INS} @500V DC | 1000 | - | - | MΩ |
| Output voltage V _{out} @I _{PN} , R _L =25KΩ, T _A = 25°C | $V_{OUT} = 4.518 * \frac{R_L}{102 + R_L} * \frac{I_P}{I_{PN}} + V_{OE}$ | | | V |
| Output internal resistance R _{OUT} | - | 102 | - | Ω |
| Load Resistance R _L (Remark 3) | - | 25 | - | KΩ |
| Accuracy X @I _{PN} , T _A = 25°C | M1: ±1% M2: ±2% | | | % |
| Linearity ε _L @R _L =25KΩ, T _A = 25°C | - | ±1 | - | %I _{PN} |
| Offset voltage V _{OE} @T _A = 25°C | M1: ±20mV M2: ±50mV | | | mV |
| Hysteresis voltage V _{OM} @ I _{PN} →0 | M1: ±20mV M2: ±50mV | | | mV |
| Temperature Coefficient of Offset Voltage TCV _{OE} | - | ±1 | ±2 | mV/°C |
| Output voltage temperature coefficient TCV _{out} | - | ±0.08 | ±0.15 | %/°C |
| Response time t _D @ 0→I _{PN} (Remark 4) | - | 5 | 7 | us |
| Ambient operating temperature T _A | -40 | 25 | 80 | °C |
| Ambient storage temperature T _s | -40 | 25 | 80 | °C |
| Withstand voltage V _D @50Hz,60s,0.1mA | | 3000 | | V _{AC} |
| Weight m | | 80 | | g |

Dimensions (in mm)

SCY15C

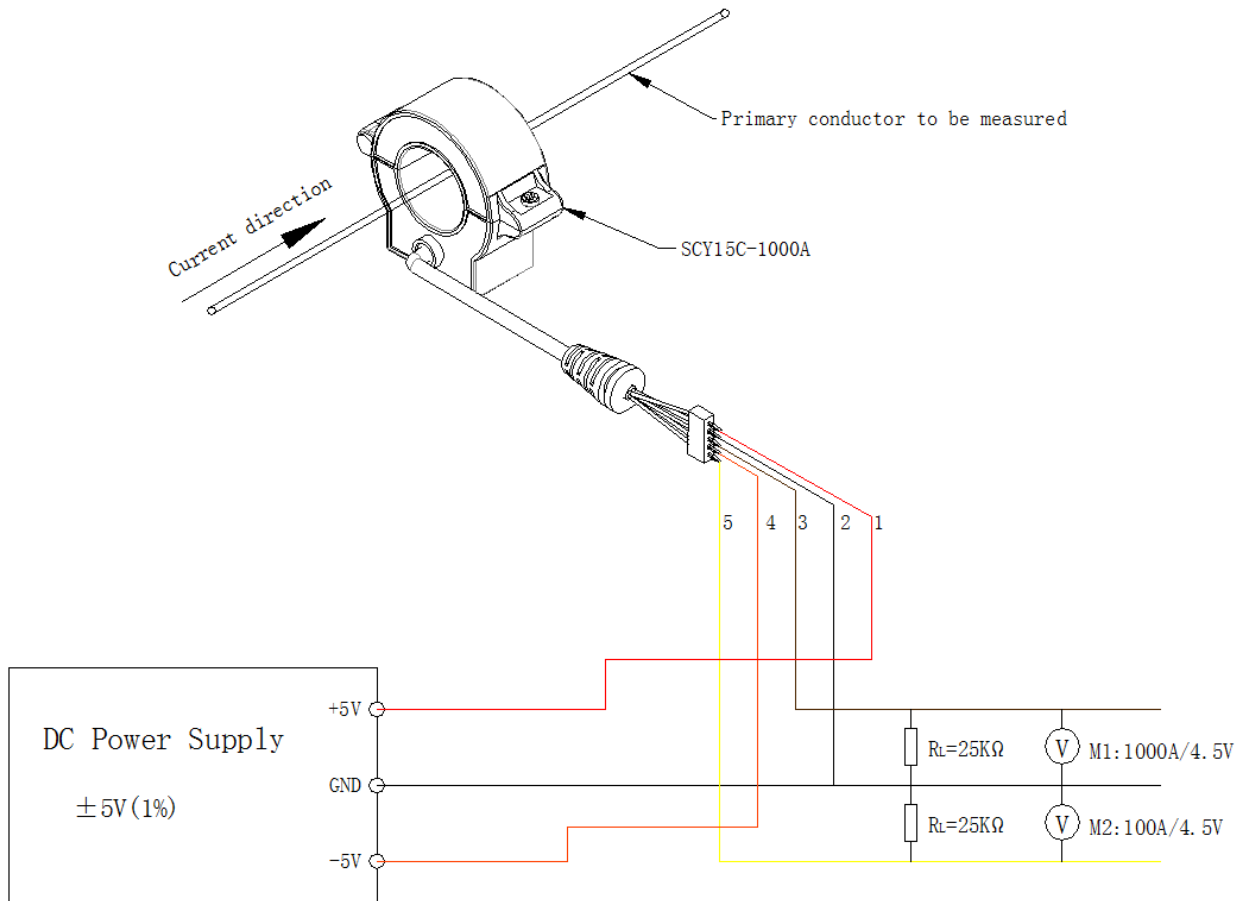


| 序号 | 标识 | 说明 | 颜色 |
|----|----|----------|-------|
| 1 | + | +5V | RED 红 |
| 2 | G | GND | BLK 黑 |
| 3 | M1 | 750A OUT | BM 棕 |
| 4 | - | -5V | ORA 橙 |
| 5 | M2 | 75A OUT | YEL 黄 |



2520H-05/ECI

Wiring Reference:



Notes:

1. Size error: $\pm 0.5\text{mm}$;
2. Primary aperture: $\varnothing 24\text{mm}$;
3. SCY15C wire shell: 2520H-05/ECI,
Terminal: 2521-2/ECI;
4. The IP indication direction is the positive direction of the current;
5. Incorrect wiring may cause damage to the sensor.

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