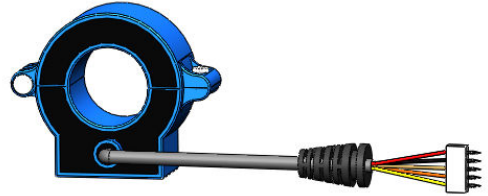


Split Core Hall effect Current Sensor

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

SoCan is committed to continuously improving product quality, and the company reserves the right to update its products.

www.szsocan.com

Technical Parameters

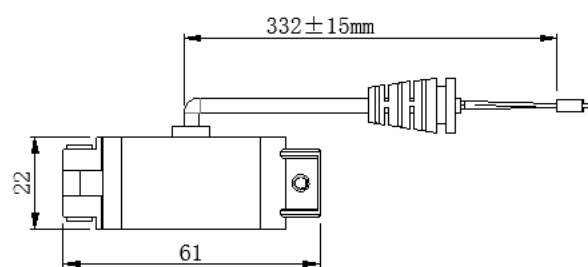
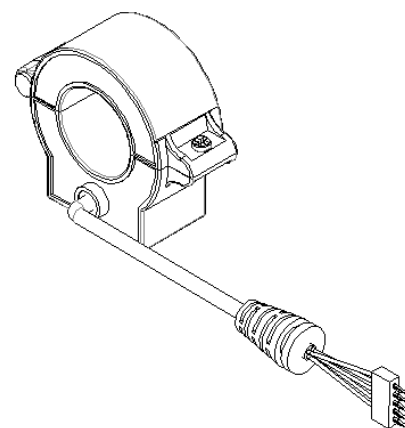
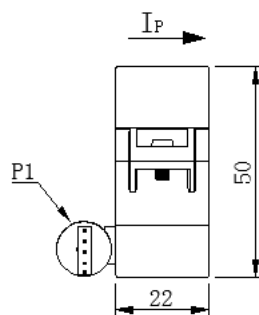
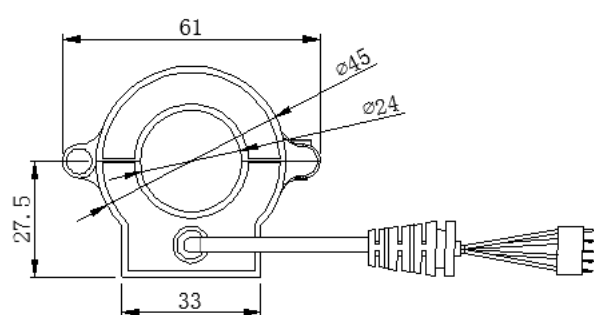
Parameters(25°C)	Model	SCY15C-	
		750A	1000A
High Primary Current (I _{PH})		750A	1000A
Low Primary Current (I _{PL})		75A	100A
Saturation Current (I _P)		750AT	1000AT

Electrical Data

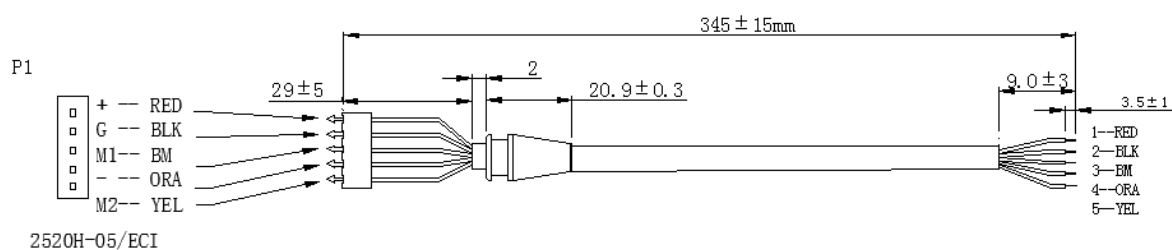
Item	Min.	Typical	Max.	Unit
Input power supply voltage range V _c (±5%) (Remark 1, Remark 2)	-	±5	-	V _{DC}
Current consumption I _c	-	±25	±30	mA
Withstand resistance R _{INS} @500V DC	1000	-	-	MΩ
Output voltage V _{out} @I _{PN} , R _L =25KΩ, T _A = 25°C	$V_{OUT} = 4.518 * \frac{R_L}{102 + R_L} * \frac{I_P}{I_{PN}} + V_{OE}$			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)

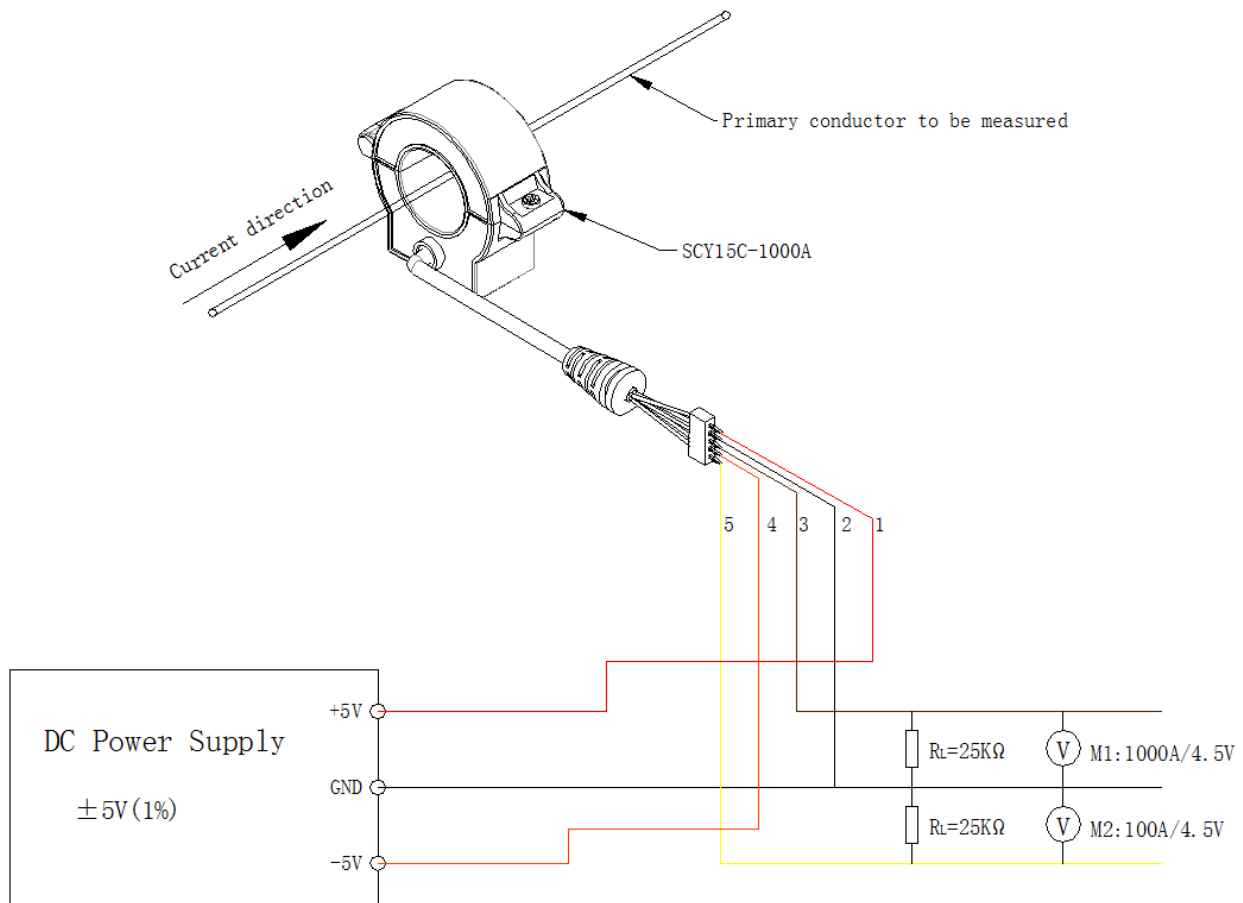
SCY15C



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



Wiring Reference:



Notes:

1. Size error: $\pm 0.5\text{mm}$;
2. Primary aperture: $\phi 24\text{mm}$;
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.