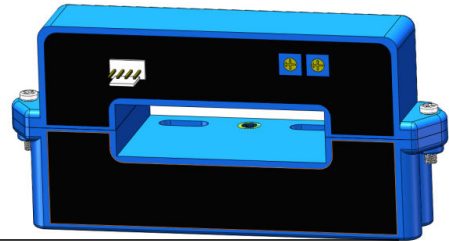


Split Core Hall effect Current Sensor

SCY5



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.
- Comply with UL94-V0 flame retardant rating.

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



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Technical Parameters

Model Parameters (25℃)	SCY5-/SCY5T-						
	400A	500A	800A	1000A	1200A	1500A	2000A
Primary Current (A) I_{PN}	400A	500A	800A	1000A	1200A	1500A	2000A
Primary Current Max. Peak Value (A) I_{PM}	±1200A	±1500A	±2400A	±2400A	±2400A	±2400A	±2400A
Output voltage (V) V_{out} @± I_{PN} , $R_L=10K\Omega$	±4V±1%						

Electrical Data

Item	Min.	Typical	Max.	Unit
Input power supply voltage range V_c (±5%) (Remark 1, Remark 2)	±11	±15	±18	V _{DC}
Current consumption I_c	-	±15	±20	mA
Withstand resistance R_{INS} @500V DC	1000	-	-	MΩ
Output voltage V_{out} @ I_{PN} , $R_L=10K\Omega$, $T_A=25^\circ C$	$V_{OUT} = 4.04 * \frac{R_L}{102 + R_L} * \frac{I_P}{I_{PN}} + V_{OE}$			V
Output internal resistance R_{OUT}	-	102	-	Ω
Load Resistance R_L (Remark 3)	1	10	-	KΩ
Accuracy X @ I_{PN} , $T_A=25^\circ C$	-	±1	-	%
Linearity ε_L @ $R_L=10K\Omega$, $T_A=25^\circ C$	-	±1	-	% I_{PN}
Offset voltage V_{OE} @ $T_A=25^\circ C$	-	±20	±25	mV
Hysteresis voltage V_{OM} @ $I_{PN} \rightarrow 0$	-	±10	±20	mV
Temperature Coefficient of Offset Voltage TCV_{OE}	-	±0.5	±1	mV/°C
Output voltage temperature coefficient TCV_{out}	-	±0.08	±0.15	%/°C
Response time t_D @ $0 \rightarrow I_{PN}$ (Remark 4)	-	3	5	us
Ambient operating temperature T_A	-40	25	125	°C
Ambient storage temperature T_s	-40	25	125	°C
Withstand voltage $V_D@50Hz, 60s, 0.1mA$		3000		V _{AC}
Weight m		370		g

Remarks:

1. VC is less than the minimum value, which will lead to inaccurate measurement, VC is greater than

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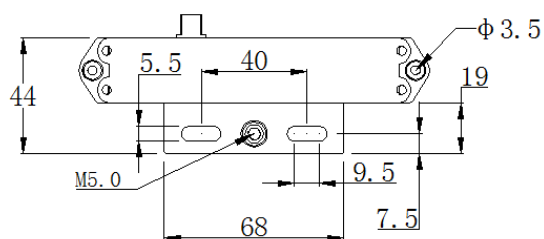
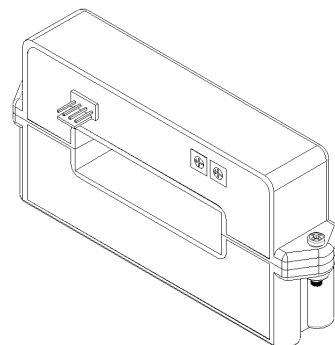
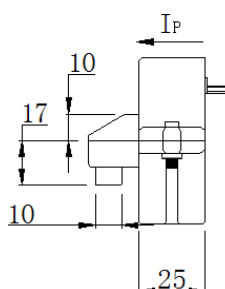
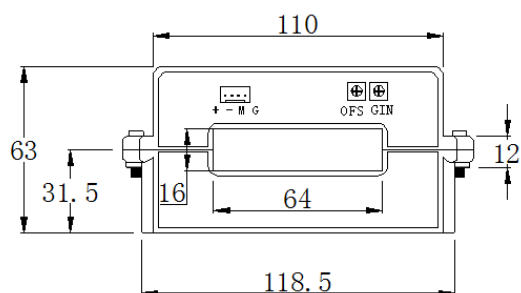
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the maximum value, which may cause permanent failure of the measurement device.

2. When $\pm 12V < V_C < \pm 15V$, the measurement range will be reduced.

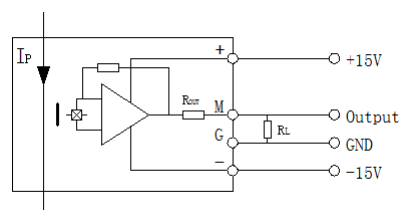
Dimensions (in mm)

SCY5

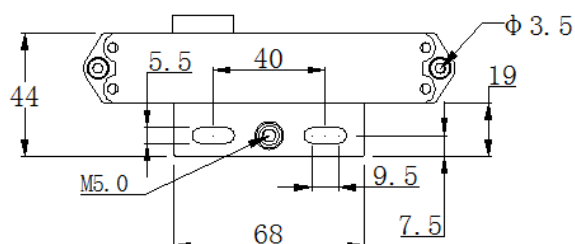
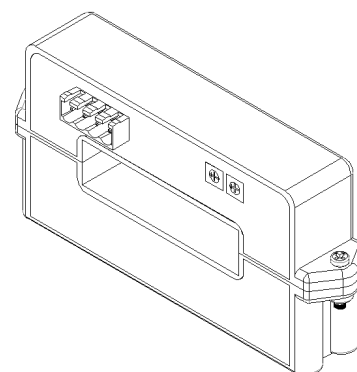
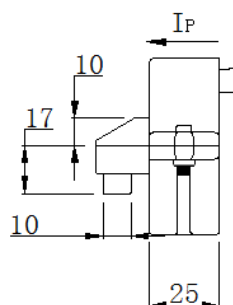
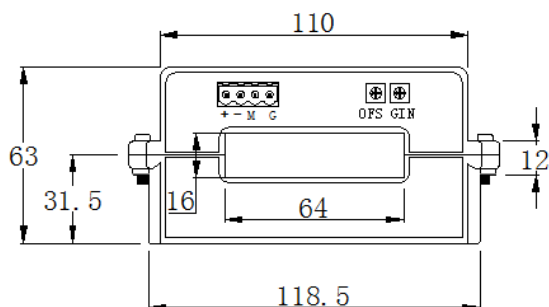


单位: mm

序号	标识	说明
1	+	+15V
2	-	-15V
3	M	Output
4	G	0V



SCY5T



单位: mm

序号	标识	说明
1	+	+15V
2	-	-15V
3	M	Output
4	G	0V

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Notes:

1. Size error: $\pm 1\text{mm}$;
2. Primary aperture: $\square 64*16\text{mm}$;
3. SCY5 output terminal: Molex 5045-04AG;
SCY5T output terminal: 2EDGVC-5.08-4P;
SCY5T mating plug: 2EDGK-5.08-4P;
4. The IP indication direction is the positive direction of the current, OFS is the zero adjustment, and GIN is the output regulation;
5. Incorrect wiring may cause damage to the sensor.