0–100A PRIMARY CURRENT | 0–150A MEASURING RANGE | ±1% ACCURACY | SPLIT-CORE DESIGN

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HCS100-S

100A Hall Effect Split-Core DC Current Sensor

The HCS100-S is a split-core Hall Effect current sensor rated for a primary current of 0–100A, extending accurate DC current measurement to a range of SATEC devices with DC-metering capability. It suits solar, battery storage and other DC power applications where an existing conductor or busbar needs to be measured without being disconnected.

Based on the Hall Effect principle, the sensor provides a proportional secondary output current with a rated accuracy of ±1%, powered from a dual ±15V DC supply. Its split-core housing opens to clamp around the primary conductor, and the output stage is factory-calibrated and should not be adjusted after installation.

Main Features

- Split-core design opens to clamp around an existing conductor or busbar, with no need to disconnect it during installation
- Primary current range of 0–100A, with a measuring range extending to 150A
- ±1% accuracy on the secondary output current
- Dual ±15V DC power supply input
- Ambient operating temperature range of –25°C to +85°C
- Factory-calibrated output stage, not user-adjustable after installation

Specifications

ELECTRICAL CHARACTERISTICS

Primary nominal input current	0–100 A
Measuring range of primary current	0–150 A
Secondary nominal output current	20 (±1%)
Power supply	±15 V DC (±5%)
Insulation voltage	AC / 50 Hz / 1 min
Ambient operating temperature	–25°C to +85°C
Ambient storage temperature	–40°C to +100°C
Weight	Not specified

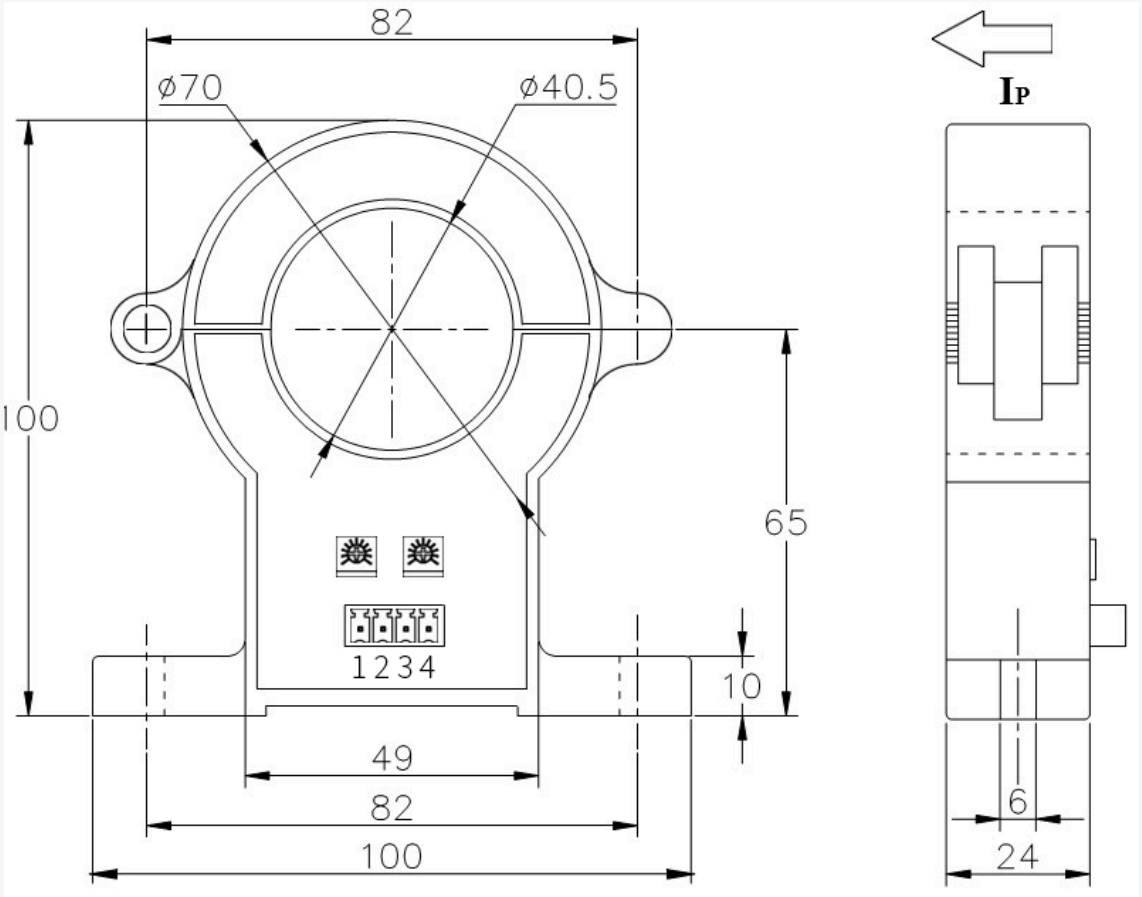
CONNECTIONS

Pin 1	+15V power supply
Pin 2	–15V power supply
Pin 3	Output current
Pin 4	Ground

IMPORTANT SAFETY NOTES

- Incorrect connection may damage the sensor
- Output current is positive when the primary current (I_P) flows in the direction of the marked arrow
- The temperature of the primary conductor or busbar running through the sensor must not exceed 100°C

DIMENSIONS (MM)



Factory adjustment — do not touch. I_P indicates the primary current direction for a positive output reading. See Connections above for the pin-out.

Ordering Information

Model	
100A Hall Effect split-core DC current sensor	**HCS100-S**

Related Current Sensors

- **HCS-1000A** – 1000A Hall Effect solid-core DC current sensor – see the **HCS-1000A datasheet**
- **HCS-2000-S** – 2000A Hall Effect split-core DC current sensor – see the **HCS-2000-S datasheet**

Place an order

To place an order or request a quotation for the HCS100-S, contact the SATEC Australia sales team, or scan the QR code.

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DOCUMENT REVISION HISTORY

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