



Products for USB Sensing and Control

Display all prices in:

USD ▾

Search

Fast Add

SBC

I/O Boards

Sensors

Distance

Encoders

FSR

Gas Pressure

Light/Sound

Load Cells

Motion

pH/ORP

Potentiometers

Proximity

Temperature/

Humidity

Touch

Voltage/Current

Motors

Linear Actuators

Servo Controllers

Servo Motors

DC Controllers

DC Motors

DC Motors w/

Encoders

Stepper Controllers

Stepper Motors

Hardware

Cables

USB

Wire

Multi-Conductor

Connectors

T-Slot

PG20

PG30

PG40

Linear Motion

8mm

12mm

16mm

25mm

Transmission

Belt Drive

Chain Drive

Gearboxes

Shaft/Couplers

Relays

RFID

Remote Control

LCD Displays

Adapters

LEDs

Switches

Fuses/Protection

USB Hubs

Power Supplies

Kits

Enclosures

Clearance Sale

Discontinued

End-of-Life

3501_0 - i-Snail-VC-25 AC Current Sensor 25Amp



Product Description

The i-Snail-VC is a self powered AC current transducer that provides a 0-5V dc analog signal proportional to the AC current flowing through the device wire window (sine wave RMS calibrated).

The i-Snail-VC is ideal for load monitoring without the need for an external power supply. Factory calibrated, fixed ranges ensure superior accuracy and eliminate configuration and adjustments in the field, saving time and avoiding confusion. Color coded labels allow for easy identification of full scale range.

The 13.7mm (0.54") wire window accommodates a conductor up to AWG #2. Multiple turns of the primary wire may be used to alter the input range. Output voltage is clamped at 6.5V, and the unit delivers a linear output up to 120% overload (6V).

Note: The i-Snail current transducer measures the current in a single AC wire (either the positive or the negative). If you put the whole cable through the window the + and - wires will cancel each other out and the sensor will read a null current value.

Formula

The formula for converting SensorValue into AC Amps (RMS) is:

$$\text{AC Amps (RMS)} = \text{SensorValue}/40$$

Product Specifications

Sensor Properties

Sensor Type	Current (AC Through-Hole)
Sensor Output Type	Non-Ratiometric
Input Current Min	0 A
Input Current Max	25 A
Current Measurement Resolution	25 mA
Measurement Error Max	0.5 %

Electrical Properties

Output Voltage Min	0 V DC
Output Voltage Max	5 V DC
Isolation Voltage (AC)	2.5 kV AC

Physical Properties

Material	UL94V-0 ABS Plastic
Wire Window Size	13.7 mm
Operating Temperature Min	-40 °C
Operating Temperature Max	50 °C

Quantity	Price
1	\$40.00
5	\$38.40
10	\$37.20
25	\$36.00
100	\$34.80

In Stock
Qty: 346

Add

1



Product Features

The i-Snail VC-25 measures up to 25 amps AC on a wire that passes through its window. Connects to an [analog input](#).

Comes packaged with

- Mounting Hardware for flexible surface mounting

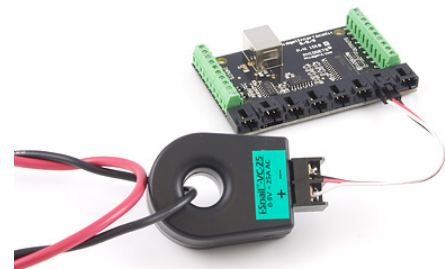


Resources

- [Wiring Diagram](#)
- [UL Certificate \(USA\)](#)
- [UL Certificate \(CAN\)](#)
- [Mechanical Drawings](#)
- [Download 3D Step File](#)

Connection

You can use the [3002 - Sensor Cable 60cm](#) or the [3004 - Sensor Cable 350cm](#) to connect the i-snail sensor to your Phidget. Just snip off the connector from one end of the sensor cable and connect the white wire to the + terminal and the black wire to the - terminal. The red wire is not used.



Then, connect it to [any device with an Analog Input](#).