Current Switch

Specification and Installation Instructions

Models

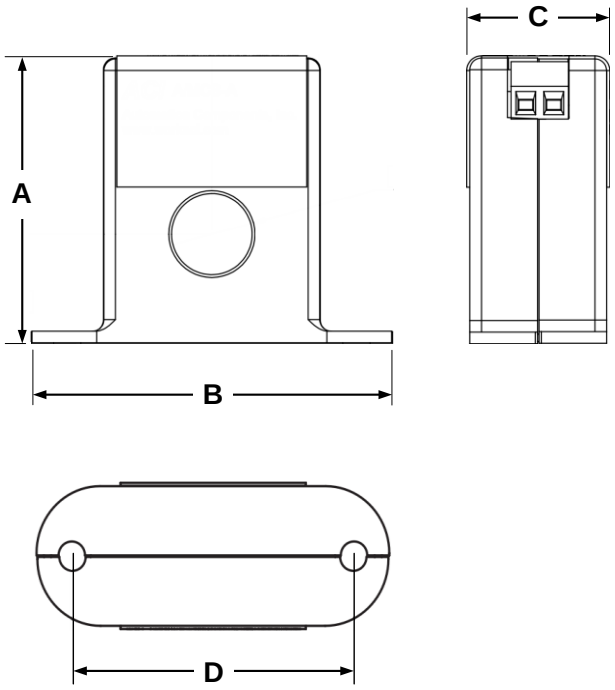
SIH-150

Features

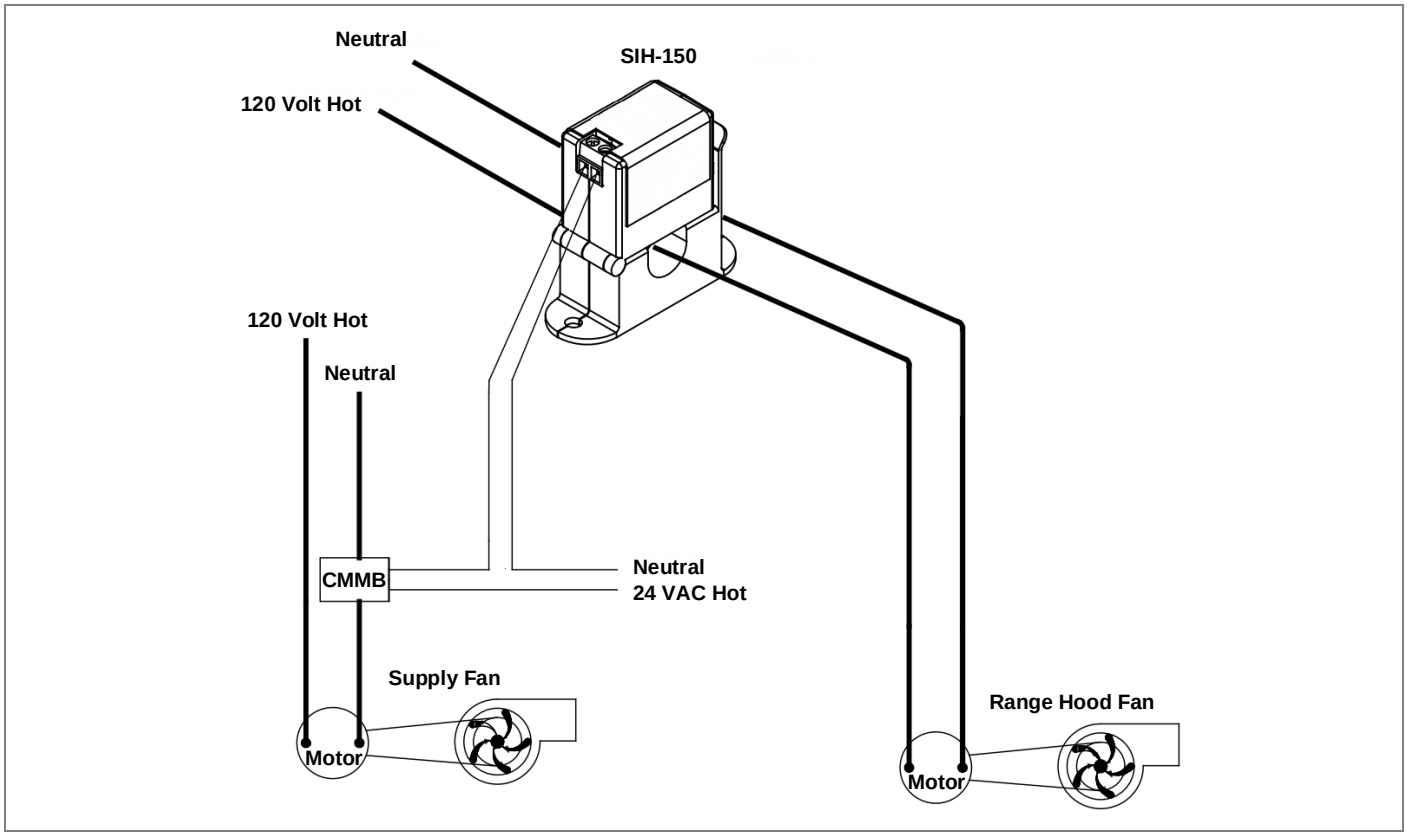
- Adjustable current switch used as a high limit device
- Provides feedback to the CMU based on the run status of the extract fan
- Amperage and trip point range of 0.32 to 150A
- Status LED

SIH-150

Technical Data

Specification	SIH-150
Maximum Voltage	600Vac
Frequency	50/60Hz
Amperage Range	0.32 to 150A
Trip Point	0.32 to 150A
Hysteresis	10% Trip point, typical
Contact Type	Normally Open (NO)
Contact Rating	1A continuous at 36 Vac/Vdc
Response Time	< 90 mS, typical
Status LED	Red LED = Current above trip point Blue LED = Current below trip point *Do not use the LED to determine if there is current flow. At low currents, the LED may not be visible.*
Aperture Size	Ø13.5mm (0.53”)
Operating Temperature	-30ºC to 60ºC [-22ºF to 140ºF]
Storage Temperature	5ºC to 35ºC [41ºF to 95ºF]
Relative Humidity	0 to 95% non-condensing
Storage Humidity Range	40 to 85% non-condensing
Electrical Connection	1.31 mm^2 to 0.33 mm^2 [16 AWG to 22 AWG], Copper wires only *The maximum wire length must not exceed 30 m (98.4 ft).*
Weight	68 g [0.15 lb]
Dimensions A = 1.99” | 51mm B = 2.51” | 64mm C = 0.99” | 25mm D = 2.00” | 51mm	
Certifications	CE UL LISTED

Wiring

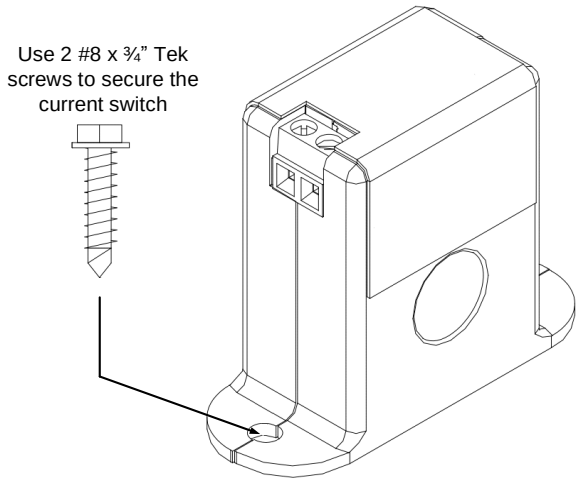


Mounting Instructions

Any installation or maintenance work must be carried out by suitably qualified personnel.

Disconnect the main supply on the unit and external loads before proceeding with any installation or maintenance.

The SIH-150 current switch must only be used on insulated conductors. Mount the current switch in any position using the two #8 x ¾" Tek screws. Leave a minimum space of 1" (30mm) between the current sensor and any magnetic devices.



Adjustable Trip Point Calibration

Ensure that the current remains within the operating range of 0-150A. Do not exceed this range.

- The fifteen-turn adjustment potentiometer comes pre-set at a 100A trip point position.
- Turn the potentiometer clockwise to decrease the trip point and counterclockwise to increase it.
- The current switch can be used to monitor under load, normal load and over load conditions based on the settings.

Normal Load

Setting Normal Load Trip Point

1. With current flowing through the aperture of the SIH-150 current switches, ensure that the blue LED is on.
2. Once the blue LED is on, begin by slowly turning the potentiometer clockwise until the red LED turns on and stops immediately. This will set the trip point at the normal operating load current.

If the Red LED is After Initial Power Up

1. Adjust the potentiometer by slowly turning it counterclockwise until the blue LED is on.
2. Slowly turn the potentiometer clockwise until the red LED turns on and stops immediately.

With the adjustable current switch now tripped, verify the output with an ohmmeter to ensure that the contacts of the switch are approximately 0.2Ω. The current switch hysteresis (dead band) is typically 10% of the trip point.

	Recycling at end of life: please return this product to your Neptronic local distributor for recycling. If you need to find the nearest Neptronic authorized distributor, please consult **www.neptronic.com**.

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