FANTECH
Intelligent Ventilation

VZ-ISNSE
Current Sensor



- Automatically switches on a fan when a load is being detected
- Commonly used to automate laundry fans or kitchen rangehood booster fans
- No Standby Power - ecofriendly!
- Can switch up to 1200VA/5A
- Isolation between switched relay output and sensed load
- Standard units include:
  - VZ-ISNSE-HC
    - “high current”
    - fixed thresholds
    - 2.5A on / 1.5A off
  - VZ-ISNSE-LC
    - “low current”
    - fixed thresholds
    - 0.5A on / 0.35A off

Guidelines for installing the ISNSE Current Sensor

OBJECTIVE / APPLICATION

The VZ-ISNSE module enables the monitoring of a minimum load current (or power of a LOAD) and switching a separate independent CONTROL circuit or device if the load current / power increases above the “On” threshold. There is a lower “Off” threshold to provide some hysteresis.

A typical application is where a bathroom fan assisted air extraction system is activated whenever a laundry dryer is in operation. The module may be used on its own to switch a fan, trigger a run-on timer or trigger a BMS system/module.

LOAD RATINGS and POWER SUPPLY REQUIREMENTS

The VZ-ISNSE module can monitor one or more inductive or resistive loads provided the maximum current and power ratings are not exceeded.

The unit **does** need a neutral connection to operate. The isolated potential free relay contacts for the output are rated up to 1200 VA / 5 Amps at 240V AC (inductive or resistive).

PLACEMENT and ACCESS

The module may be mounted in a wall cavity behind or next to a wall power socket, in a ceiling or a switch board. The unit must be mounted in a dry reasonably clean environment. Make sure that the unit is accessible for service or replacement.

SWITCHING THRESHOLDS

The standard thresholds are:
VZ-ISNSE-HC: On at 2.50A, off at 1.50A
VZ-ISNSE-LC: On at 0.50A, off at 0.35A

The tolerance is about 10% though it can depend on the type of load being used.

The units are available with adjustable thresholds or preset to different values.

CONNECTIONS

Load

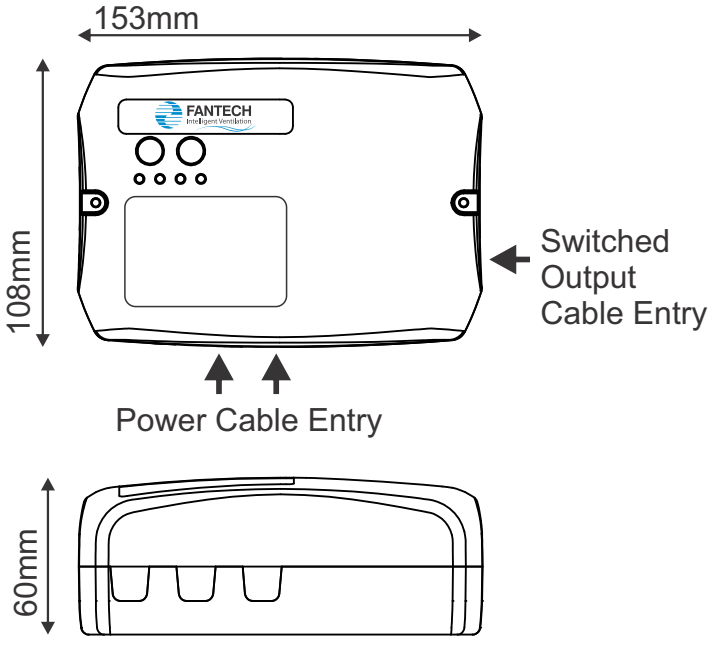
Suitable sized cable should be used in accordance with AS/NZS3000 to place the unit in series with the active line of the load and connected to the “Active In” and “Active Out” terminals.

The “Neutral” and “Earth” terminals are required for the unit to function. This is different from previous units.

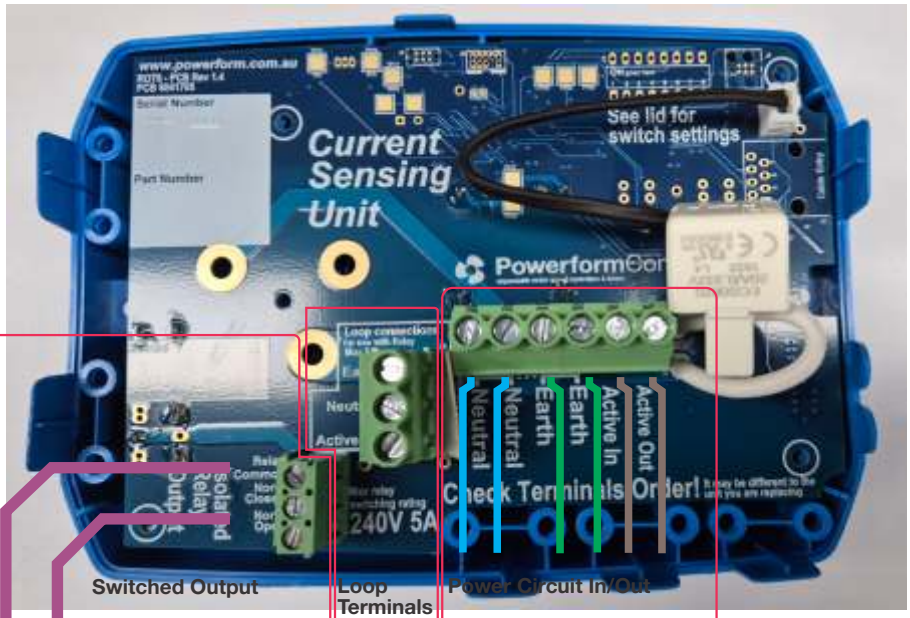
Control Output

The voltage free relay contacts are via the “Relay Common”, “Normally Open” and “Normally Closed” terminals.

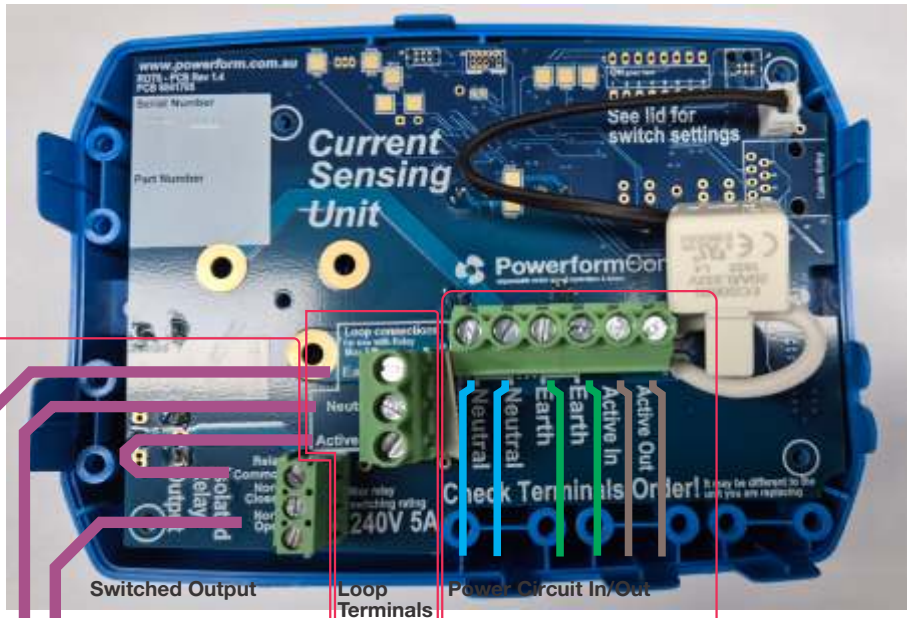
Dimensions



General Wiring Diagram



Direct Fan Connection



Questions?

If you are unsure of any aspect of the contents of this product advice sheet, connection, wiring, application or operation, please contact Fantech

Limits

Maximum Measured Current
(ie Active In - Active Out)
ISNSE-HC: 20A
ISNSE-LC: 20A

Caution

The inside of the module must be considered **live and dangerous at all times**.

Before the lid is removed the power both to the LOAD and CONTROL circuit MUST be isolated OFF.

If you are unsure of any aspect of the contents of this product advice sheet, connection, wiring, application or operation, please contact Fantech.

Unit needs Neutral/Earth to function.

Check terminal labels - the order has changed

WARRANTY

Scan the above QR code or visit
www.fantech.com.au/warranty
to view WARRANTY
information online

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09/2025 **Part no. VZ-ISNSE Manual**