



Key Features

- Single current switch - most commonly used to monitor the current of a fan.
- 0.085a-50a current range.
- Straight forward to install and calibrate.
- 3 Year CGS Warranty.

Overview

The Merlin CS1 is a method used for interlocking a kitchen's gas supply with the ventilation system. As an alternative to air pressure differential switches the CS1 is designed to monitor the current going to a single ventilation fan. When the fan is running and a current is being drawn along the live feed, a magnetic field is induced through the coil and the current switch will send a closed contact along two low voltage cables to any CGS controller. Gas can now be introduced into the kitchen.

If the CS1 can not detect any current, the CS1 will switch the normally closed dry contact to open and will send a signal back to the connected CGS controller to shut off the utility supply i.e. fuel gas to the kitchen range.

Operating Instructions

The live wire running between the fan controller and the fan loops through the current switch until the ON light has illuminated (RED) meaning the CS1 is calibrated. The more times the wire is wrapped through the loop, the more sensitive the current switch becomes. The power LED (GREEN) indicates circuit power.

The normally closed dry contact on the top of the current switch should be connected to the associated CGS controller to provide a normally open or normally closed switched signal.

Open Circuit - The Merlin CS1 cannot detect current **Closed Circuit - The Merlin CS1 can detect current**

Application

- Restaurants.
- Care Facilities.
- School and College Kitchens.
- Used in conjunction with the CGS Merlin range to monitor the current of the ventilation before allowing a gas solenoid valve to open.



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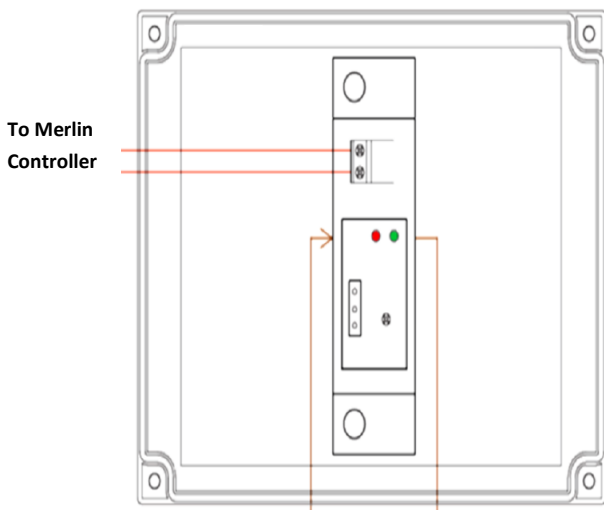


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Technical Specifications

Power Supply	None - Self Powered
Set-Point	0.5A...200A
Output Switch	0.3A @ 135V ac/dc
Hysteresis	<2 [^] FS max
Response Time	<200mS
Dimensions	2.4" x 3.5" x 0.98"
Enclosure Material	UL 94V-0 flammability rated ABS
Conductor Hole Diameter	0.75"
Operating Temperature	-13°F to 158°F
Certification	CE / UL / RoHS

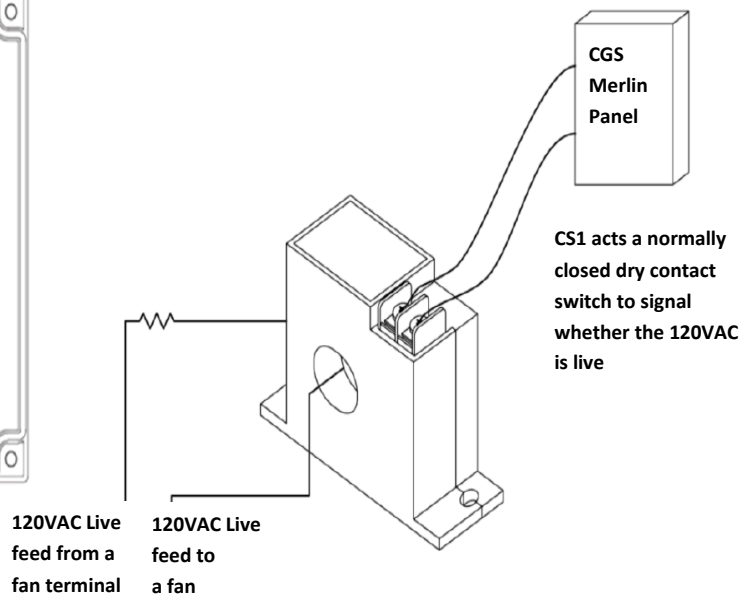
Wiring Diagram



Live feed from a fan terminal

Live feed to a fan

Typical Current Switch Device Example



CS1 acts a normally closed dry contact switch to signal whether the 120VAC is live



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