

# AS1 NOR-FT-GO SERIES

## Current Sensing Switches

AS1 NOR-FT-GO Series Current Sensing Switches are a specialized current sensing switch providing an electromechanical relay contact. This output allows the sensor to control much more current than other AS1 models. This contact can control loads up to 5 A, AC or DC. Solid-state contacts generally have a much lower capacity, making this sensor much more versatile than most self-powered models. Available in a solid-core case only.



### Current Sensing Switch Applications

#### Electronic Proof of Flow

- Current sensing switches eliminate the need for multiple conduits or duct penetrations and are more reliable than electromechanical pressure or flow switches.

#### Compressor Monitoring

- Detect when the compressor is running.
- Allows for time of use logging; helps maintenance scheduling.

#### Heaters

- Sense system operation.

#### Fan Interlocks

- Sense system operation.
- Use to turn on a duct booster fan when clothes dryer is energized.

### Current Sensing Switch Features

#### Electromechanical Output

- N.O. mechanical output relay for detection of current; closes on current increase.

#### Fixed Setpoint

- Cuts installation and operating costs.

#### Self-powered

- Reduces installation time and costs.

#### Integral Mounting Feet

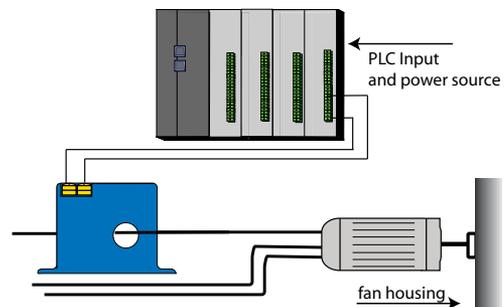
- Built-in feet for direct panel mounting or attachment of DIN rail compatible brackets.\*

#### UL/cUL and CE Approved

- Accepted worldwide.

\*For information on the DIN rail accessories kit, see page 122.

Current Sensing Switch Monitoring a Fan Load



Motor current causes the relay contact to close, and if the coupling breaks the current falls and the sensor output opens again

- For additional Application Examples, go to [www.nktechnologies.com/applications](http://www.nktechnologies.com/applications)

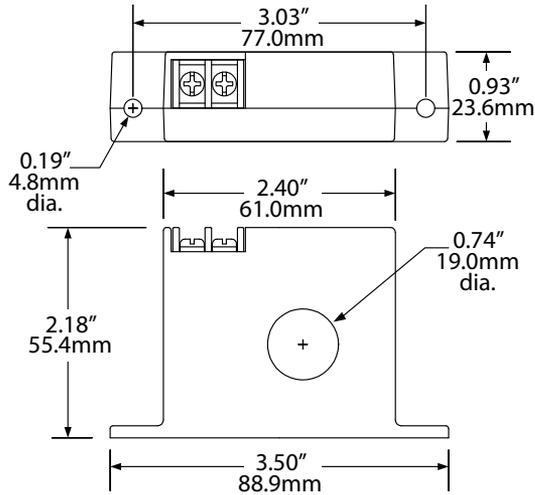
OEMs

Test & Evaluation Units for OEMs

Free program expedites evaluation process. See page 1 for details.

Current Sensing Switch Dimensions

FT Case



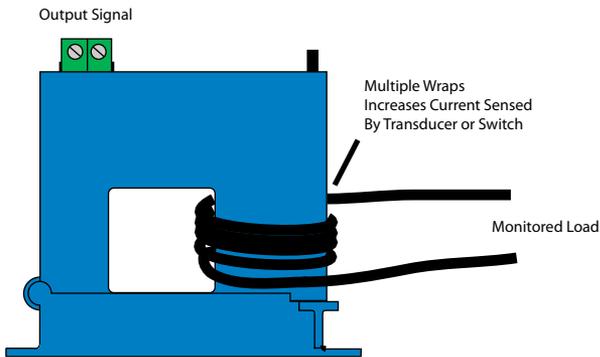
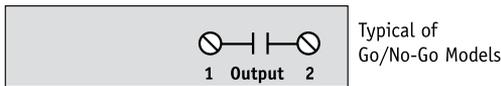
Current Sensing Switch Specifications



<b>Power Supply</b>	None, Self-powered
<b>Setpoint Range</b>	Go/No-go 5.8 A (factory set)
<b>Output Description</b>	Electromechanical SPST relay
<b>Output Rating</b>	• 5 A @ 250 VAC • 5 A @ 30 VDC
<b>Response Time</b>	120 ms
<b>Time Delay</b>	None
<b>Hysteresis</b>	8%
<b>Overload</b>	6 sec. @ 400 A, 1 sec. @1000 A
<b>Isolation Voltage</b>	UL listed to 1270 VAC, tested to 5 KV
<b>Frequency Range</b>	6–100 Hz
<b>Case</b>	UL94 V-0 Flammability Rated
<b>Environmental</b>	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing
<b>Listings</b>	UL/cUL, CE

Current Sensing Switches

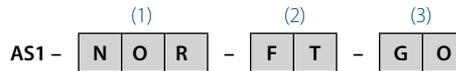
Current Sensing Switch Connections



Current Sensing Switch Ordering Information

Sample Model Number: AS1-NOR-FT-GO

AC current operated switch, solid-core, non-adjustable trip point (5.6 A), self-powered, normally open relay contact output rated to 5 A. (DIN rail adapters are included)



(1) Output Rating

NOR	Normally Open (mechanical)
-----	----------------------------

(2) Case Style

FT	Solid-core, Top Terminals
----	---------------------------

(3) Options

GO	Go/no-go version (fixed-setpoint)
----	-----------------------------------

