

ASX SERIES

Current Sensing Switches

ASX Series Current Sensing Switches are high performance current sensing switches with field-adjustable time delay to help minimize nuisance trips during start-up and operation. Designed for motor status applications where setpoint accuracy and repeatability are critical, the ASX Series offers a linear setpoint characteristic and constant hysteresis. Standard features include self-powering, jumper-selectable ranges and a choice of outputs and cases.



Current Sensing Switch Applications

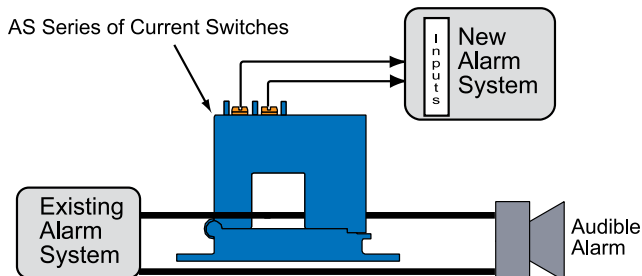
Motor Protection

- Serves as an electronic proof-of-operation; detects current draw changes in motors when they encounter problems such as pumps running dry or pending bearing failure.
- Non-intrusive, less expensive to install than differential pressure flow sensors or thermal switches.
- Much quicker response time than Class 10 overload switches.

High Inrush or Temporary Overload Current

- Adjustable start-up/delay timer allows 0.2–15 second delay to eliminate nuisance trips from high inrush or short overload conditions.

Isolated Alarm System Interfacing



- For additional Application Examples, go to www.nktechnologies.com/applications

Current Sensing Switch Features

Adjustable Start-up/Delay Timer

- Field-adjustable from 0.2–15 seconds to eliminate nuisance alarms due to startup inrush or temporary overcurrent conditions.

Choice of N.O./N.C. AC or Universal Outputs

- Contact ratings of 1.0 A @ 240 VAC or universal outputs of 0.15 A @ 240 VAC/DC (N.O. models) and 0.2 A @ 135 VAC/DC (N.C. models) for use with most standard motor control systems.

Improved Ease of Installation and Use

- 1.0 A AC rating eliminates need for time delay relay.
- Self-powered, split-core models simplify installation.
- Status LED provides visual indication of setpoint trip and contact action.

Industrial Grade Performance

- Constant hysteresis and linear response characteristics enhance setpoint accuracy.

Agency Approved

- UL listed, CE pending.

OEMs

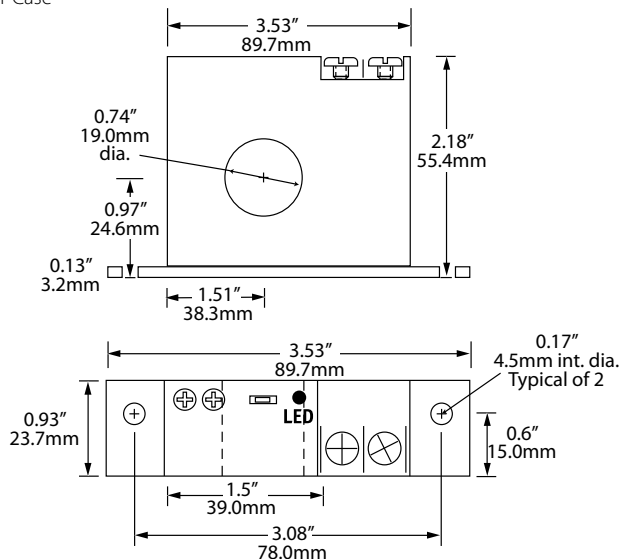
Test & Evaluation Units for OEMs

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

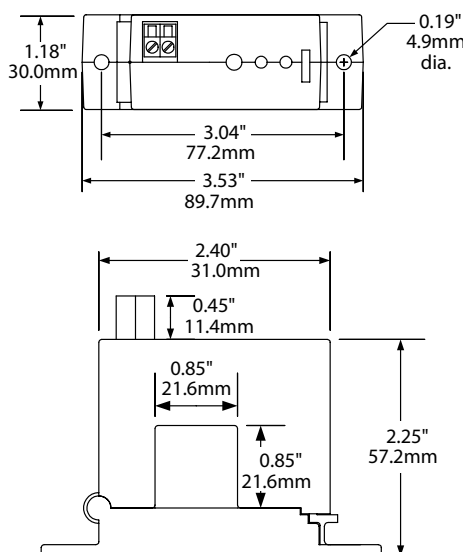


Current Sensing Switch Dimensions

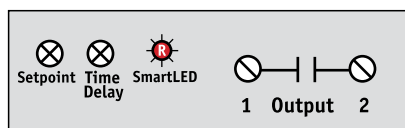
FT Case



SP Case



Current Sensing Switch Connections



Current Sensing Switch Specifications

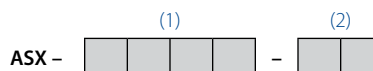
Power Supply	None—Self-powered
Output	Isolated solid-state relay
Output Rating	<ul style="list-style-type: none"> • NOAC/NCAC: 1 A @ 240 VAC • NOU: 0.15 A @ 240 VAC or VDC • NCU: 0.2 A @ 135 VAC or VDC
Off-state Leakage	NOU, NCU & NOAC versions: <10 micro A NCAC versions: 2.5 mA
Response Time	Adjustable 0.2 to 15 sec.
Setpoint Range	Jumper-selectable: 1.5–12 A, 12–55 A, 50–200 A
Hysteresis	5% (constant)
Overload	<ul style="list-style-type: none"> • 1.5–12 A range: 600 A max. • 12–55 A range: 800 A max. • 50–200 A range: 1200 A max.
Isolation Voltage	UL listed to 1270 VAC
Frequency Range	50–100 Hz
Case	UL94 V0 Flammability Rated
Environmental	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing
Listings	UL 508 Industrial Control Equipment (USA & Canada)*, CE (pending)

*Consult factory for UL listed models.

Current Sensing Switch Ordering Information

Sample Model Number: ASX-NOAC-SP

Current sensing switch with adjustable time delay, N.O. 1.0 A @ 240 VAC output, jumper-selectable input ranges, split-core case.



(1) Output Type

NOAC	Normally Open, 1 A @ 240 VAC
NCAC	Normally Closed, 1 A @ 240 VAC
NOU	Normally Open, 0.15 A @ 240 VAC/DC
NCU	Normally Closed, 0.2 A @ 135 VAC/DC

(2) Case Style

FT	Solid-core
SP	Split-core

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