

# ASXP SERIES

## Current Sensing Switches

ASXP Series Current Sensing Switches are powered versions of our popular current switches with integral time delay. A fixed two-second delay upon initial energization of monitored load minimizes nuisance alarms during startup and operation in motor or heater status applications. After startup a separate 0–20 second delay can be set. For use with 24 VAC/DC or 120 VAC power supplies, this high performance product offers OEM-caliber accuracy, precision tolerances, low hysteresis and an operation range between 40 and 100 Hz. Available with status LED and solid-core case as standard.



### Current Sensing Switch Applications

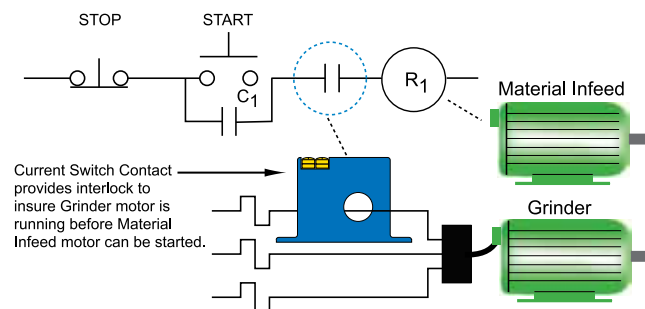
#### Motor Protection

- Serves as an electronic proof-of-operation; detects current draw changes in motors when they encounter problems such as pumps running dry or impending 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

- Factory-set two-second delay on startup eliminates nuisance trips from high inrush or short overload conditions. After startup, a second 0.2–20 second user-adjustable delay is available.

#### Safety Interlocks



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

### Current Sensing Switch Features

#### Fixed Startup/Delay Timer

- Factory-calibrated trip timer set to 2 seconds to eliminate nuisance alarms due to startup inrush or temporary overcurrent conditions.

#### Form C Electromechanical Relay Output

- Contact rating of 1 A, up to 120 VAC, provides adequate switching capacity for use with most motor control systems.

#### Improved Ease of Installation and Use

- Eliminates need for separate time delay relay.
- Choice of 24 VAC/DC or 120 VAC power supply models.
- LED provides indication of trip point contact status.
- Setpoint adjustable from 1–80 A.

#### Industrial Grade Performance

- Repeatable performance, precise time delay setpoint, constant hysteresis and linear trip point adjustment.

#### UL/cUL and CE Approved

- Accepted worldwide.

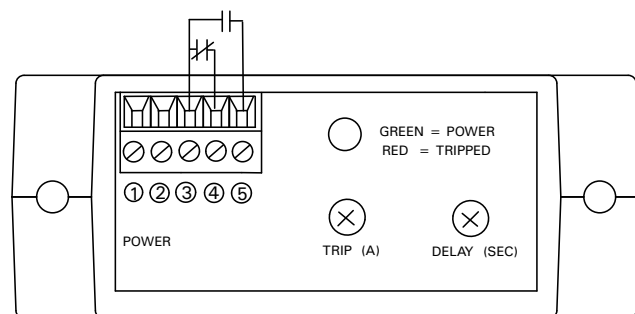
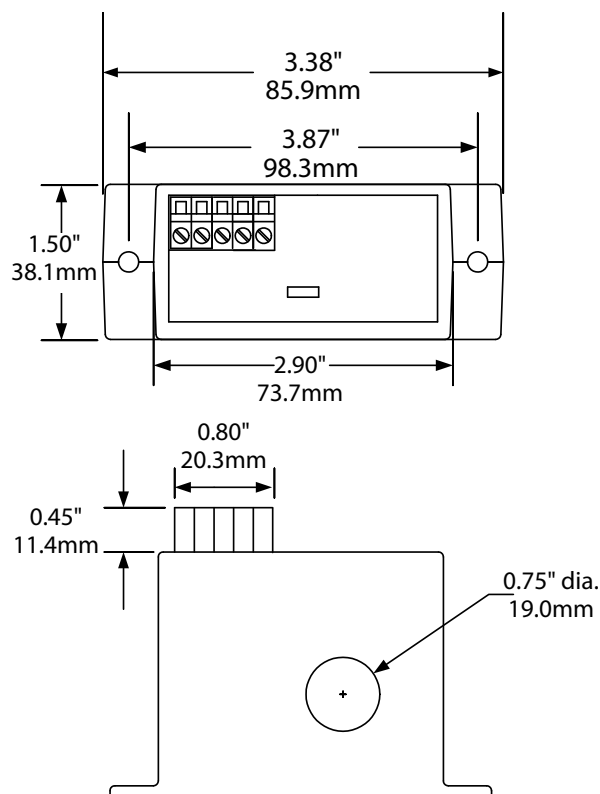
OEMs

Test &amp; Evaluation Units for OEMs

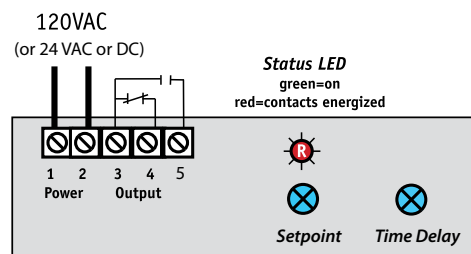
Free program expedites evaluation process. See page 3 for details.

## Current Sensing Switch Dimensions

FL Case



## Current Sensing Switch Connections



## Current Sensing Switch Specifications



<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• 120 VAC (108–136 V)</li> <li>• 24 VAC/DC (22–26 V)</li> </ul>
<b>Power Consumption</b>	<2 VA
<b>Setpoint Range</b>	<ul style="list-style-type: none"> <li>• ASXP1: 1–20 A (adjustable)</li> <li>• ASXP2: 20–50 A (adjustable)</li> <li>• ASXP3: 50–80 A (adjustable)</li> </ul>
<b>Output Description</b>	Electromechanical SPDT relay
<b>Output Rating</b>	1 A @ 120 VAC; 2 A @ 30 VDC
<b>Time Delay</b>	2.0 sec. (fixed on startup) 0.2–20 sec. (adjustable after startup)
<b>Hysteresis</b>	5%
<b>Isolation Voltage</b>	UL listed to 1270 VAC, tested to 5 kV
<b>Frequency Range</b>	40–100 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 Switch Ordering Information

Sample Model Number: ASXP1-SDT-120-FL

AC current sensing switch, fixed 2 sec. delay, SPDT 1 A output, 120 VAC supply, solid-core case. (DIN rail adapters are included)

ASXP (1) - (2) S D T - (3) - (4) F L

## (1) Input Range

1	1–20 A
2	20–50 A
3	50–80 A

## (2) Output Type

SDT	SPDT 1 A @ 120 VAC
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## (3) Power Supply

24U	24 VAC/DC
120	120 VAC

## (4) Case Style

FL	Solid-core
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