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/VDC 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

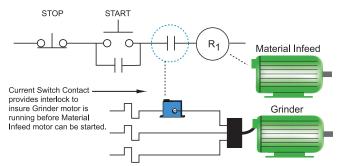
Motor Protection

- 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 useradjustable delay is available.

Safety Interlocks



 For additional Application Examples, go to 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/VDC 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.

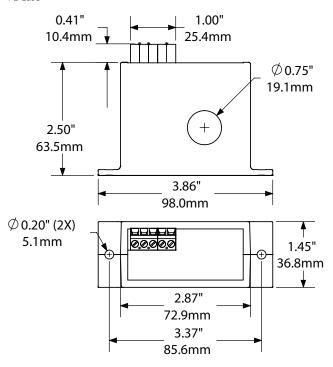






Current Sensing Switch Dimensions

FL Case



Current Sensing Switch Specifications





	c o us
Power Supply	• 120 VAC (108–136 V) • 24 VAC/VDC (22–26 V)
Power Consumption	<2 VA
Setpoint Range	ASXP1: 1–20 A (adjustable) ASXP2: 20–50 A (adjustable) ASXP3: 50–80 A (adjustable)
Output Switch	Electromechanical SPDT relay
Output Rating	1 A @ 120 VAC; 2 A @ 30 VDC (general use)
Time Delay	2.0 sec. (fixed on startup) 0.2–20 sec. (adjustable after startup)
Hysteresis	5%
Isolation Voltage	UL listed to 2200 VAC
Frequency Range	40–100 Hz
Case	UL94 V-0 Flammability Rated
Environmental	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing
Listings	UL/cUL, CE

Current Sensing Switch Ordering Information

Sample Model Number: ASXP1-SDT-120-FL $\dot{\rm AC}$ current sensing switch, fixed 2 sec. delay, SPDT 1 A output, 120 VAC supply, solid-core case. (DIN rail adapters are included)



(1) Input Range

1	1–20 A
2	20–50 A
3	50–80 A

(2) Output Type

SDT SPDT 1 A @ 120 VA

(3) Power Supply

24U	24 VAC/VDC
120	120 VAC

(4) Case St	estyle	
FL	Solid-core	

Current Sensing Switch Connections

120 VAC (or 24 VAC or VDC) **Status LED** green=on red=contacts energized **Power Output** Setpoint Time Delay

