

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 startup 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

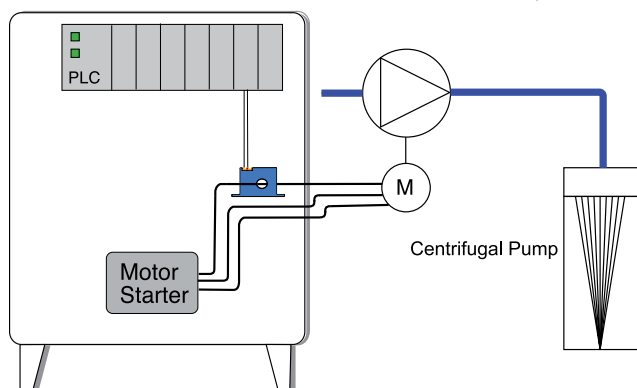
- Serves as an electronic proof-of-operation; detects current draw changes in motors when they encounter problems such as pumps running dry or pending bearing failure.
- Non-intrusive, less expensive to install than differential pressure flow sensors or thermal switches.
- Much quicker response time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

High Inrush or Temporary Overload Current

- Adjustable startup/delay timer allows 0.12–15 second delay to eliminate nuisance trips from high inrush or short overload conditions.

Isolated Alarm System Interfacing

Detect dead head conditions in a pump system



- For additional Application Examples, www.mod-tronic.com

OEMs

Test & Evaluation Units for OEMs

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

Current Sensing Switch Features

Adjustable Startup/Delay Timer

- Field-adjustable from 0.12 to 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

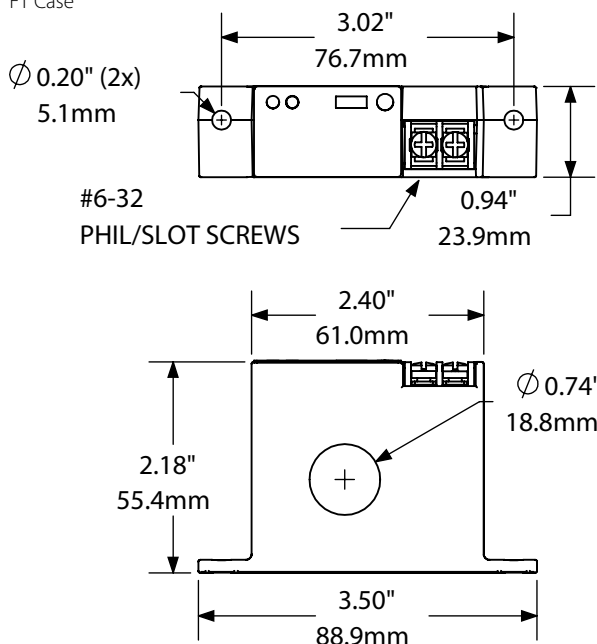
- Constant hysteresis, linear response characteristics enhance setpoint accuracy.

UL/cUL and CE Approved

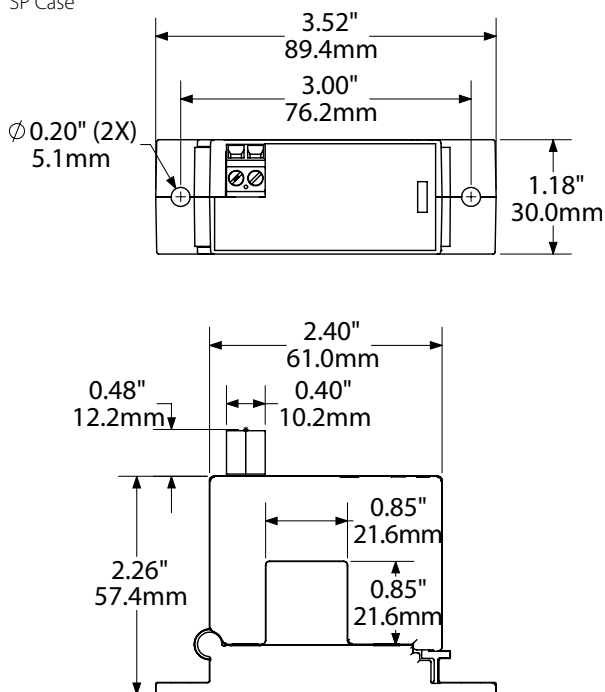
- Accepted worldwide.

Current Sensing Switch Dimensions

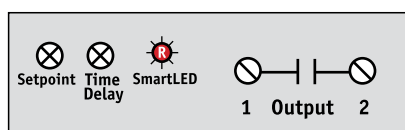
FT Case



SP Case



Current Sensing Switch Connections



Current Sensing Switch Specifications



Power Supply	None, self-powered			
Setpoint Range	-FT: 1.5-12, 12-55 and 50-175 A -SP: 2-12, 12-55 and 50-200 A			
Output Switch	Isolated solid-state switch			
Output Rating	• NOAC/NCAC: 1 A @ 240 VAC (general use) • NOU: 0.15 A @ 240 VAC or VDC (general use) • NCU: 0.2 A @ 135 VAC or VDC (general use)			
Off-state Leakage	NOU, NCU & NOAC versions: <10 uA NCAC versions: 2.5 mA			
Response Time	0.12–15 sec. adjustable			
Hysteresis	5%			
Overload	CONTINUOUS		6 SEC.	1 SEC.
	-FT	• 175 A	• 400 A	• 1000 A
	-SP	• 200 A	• 400 A	• 1000 A
Isolation Voltage	UL listed to 1480 VAC			
Frequency Range	50–100 Hz			
Case	UL94 V-0 Flammability Rated			
Environmental	5 to 122°F (-15 to 50°C) 0–95% RH, non-condensing			
Listings	UL/cUL, CE			

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. (DIN rail adapters are included)

ASX – (1) – (2)

(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