ASXP-LS SERIES

Current Sensing Switches

ASXP-LS Series Current Switches combine a current transformer and signal conditioner into a single package. The large, easy-to-install, split-core design allows for installation over existing conductors without the need to disconnect the load, even in applications where there are multiple conductors per phase. For new installations, the installation is just as easy. Just remove the top portion of the sensing ring, place the conductors inside, and snap the top back in place. The switch output is externally powered, and the setpoint is adjustable between a very wide range. The mechanical relay contact provides a trouble free, long lasting, and very durable alarm or interlock, improving safety and overall system reliability.

Current Sensing Switch Applications

Monitor Large Machines

• Detect over or under-current conditions before they cause break downs, or interlock one process with another.

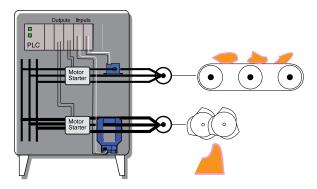
Water Delivery and Treatment

- · Detect open discharge lines.
- Sense clogged filters or blocked intake to pumps.

Generators

Shed noncritical loads when demand reaches a set level.

Interlock Infeed Conveyor with Main Crusher



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





Current Sensing Switch Features

Electromechanical Relay Output

- Provides both normally open and normally closed contacts.
- Compatible with most automation and control systems.

Externally Powered

• Provides a choice of fail-safe* or standard operation.

Simple Field Setpoint Adjustment

- Single turn potentiometer with setpoint shown on label.
- Adjustable start delay to bypass inrush current.

Split-core Case

• Sensing window provides ample space for bus bar, single or multiple conductors.

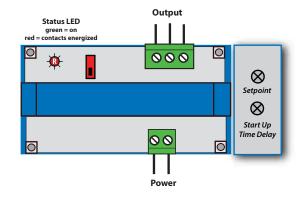
DIN Rail or Panel Mount

• Simple snap onto DIN rail or attach with screws to a panel for secure mounting.

Designed for UL, CUL and CE Approval

· Accepted around the world.

Current Sensing Switch Connections

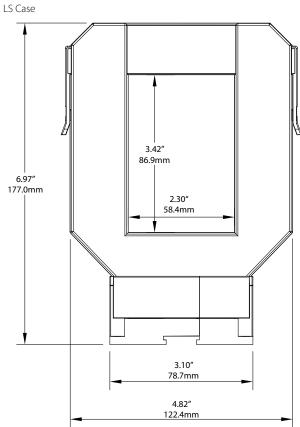


*For a description of fail-safe operation, see the installation instructions.





Current Sensing Switch Dimensions



1.34" 34.0mm 1.48" 37.6mm 3.75" 95.1mm

Note: Drawings are not to scale

Current Sensing Switch Specifications

Power Supply	120 VAC or 24 VAC/DC (22-36 V)	
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Consumption	<4 VA	
Output	Electromechanical relay 1 A @ 120 VAC, 2 A @ 30 VDC Max.	
Hysteresis	5% of setpoint	
Indicating Bi-Color LED	Green: Power on, current within range Red: Power on, current over Setpoint Off: Power off or current less than 20% of range	
Response Time	ne 100 ms (Current 90% over setpoint)	
Output Operation	Selectable: Normal or Fail-Safe*	
Start Delay	0.5 to 16 seconds	
Ranges	8: 200–800 A 10: 400–1000 A 12: 600–1200 A 16: 1000–1600 A	
Isolation Voltage	on Voltage Tested to 5000 VAC	
Frequency Range	6-100 Hz to 10-100 Hz	
Sensing Aperture	LS Case: 2.3" (58.42 mm) x 3.42" (86.87 mm)	
Case	UL94 V0 Flammability Rated DIN Rail mounting	
Environmental	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing	
Listings	Designed to meet UL 508 Industrial Control Equipment (USA & Canada)	

Current Sensing Switch Ordering Information

Sample Model Number: ASXP8-SDT-24U-LS AC current transducer, 200–800 A range, single pole, SDT relay (Form C), 24 VAC/DC, split-core case, DIN rail mounting.



(1) Range

8	200–800 A
10	400–1000 A
12	600–1200 A
16	1000–1600 A

(2) Output Type

SDT	SPDT Relay (Form C)

(3) Power Supply

24U	24 VAC/DC
120	120 VAC

(4) Power Supply

LS Split-core, Ba	se Terminals, DIN Rail mounting
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^{*}For a description of fail-safe operation, see the installation instructions.