



NK Technologies



MADE IN USA

AS1 SERIES Current Operated Switch w/Output Bypass

Specifications

Power Supply	None—Self-powered		
Output	Magnetically Isolated Solid-State Switch		
Output Rating	<ul style="list-style-type: none"> ● N.O. Version: 0.15A @ 240VAC or VDC ● N.C. Version: 0.2A @ 135VAC or VDC ● Not polarity sensitive 		
Off-State Leakage	<10µA		
Response Time	120 ms		
Setpoint Range	Solid-core: 1–150A		
Hysteresis	5% of Setpoint		
Overload	MODEL	6 SEC	1 SEC
	<ul style="list-style-type: none"> ● -GO(NOU) ● -GO(NCU) ● All other 	<ul style="list-style-type: none"> ● 500A ● 400A ● 400A 	<ul style="list-style-type: none"> ● 1,000A ● 1,000A ● 1,000A
Isolation Voltage	UL Listed to 1,270VAC, tested to 5,000VAC		
Frequency Range	6–100Hz		
Sensing Aperture	-FT Case: 0.74" (19mm) dia.		
Case	UL94 V0 Flammability Rated		
Environmental	-58 to 122°F (-20 to 50°C) 0–95% RH, non-condensing		

AS1 Series with output bypass is a standard AS1 current switch with the additional feature of allowing a user to bypass sensor operation and force the output contacts into their energized state. This feature is beneficial whenever commissioning or servicing a system as it allows the output circuit to be tested without the sensor having to be operational. Available in -FT solid-core enclosure style only (See AS1 dimensional drawing, page 3, NK Product Catalog).

Features

Universal Output

- N.O. or N.C. solid state switch for applications up to 240VAC/VDC. Compatible with most automation systems and equipment.

Bypass Switch

- Switch selectable bypass forces contacts into energized state (i.e., when setpoint has been exceeded) for system commissioning and testing.

Self-Powered

- Reduces installation time and costs.

Adjustable Setpoint

- Trip point adjustment from 1–150A.

Integral Mounting Feet

- Molded in feet screw mounting or attachment of DIN-compatible brackets.

Applications

System Monitoring and Status

- Monitor fan, pump or heater status; sense when equipment is on and operating at normal current draw levels.
- Provide electronic “proof of flow” without duct or pipe sensor installations.

Conveyor Loading or Jam Sensing

- Monitor load on conveyor motors to detect when jams or overloads occur.
- Helpful when interlocking multiple conveyors sections.

Heaters & Lighting Circuits

- Sense system operation; faster reacting than thermal motor overloads and more accurate than photocells in lighting applications.

Ordering Information

Sample Model Number: AS1-NOU-FT-Y39

AS1 - ⁽¹⁾ [] - ⁽²⁾ [FT] - ⁽³⁾ [Y39]

(1) Output Rating

NOU	Normally Open
NCU	Normally Closed

(2) Case Style

FT	Solid-core, Top Terminals
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(3) Options

Y39	Output Contact Bypass
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