



AS3 Series



Current Operated Switches

'AS3' Series Current Operated Switches from NK Technologies provide the same dependable indication of status offered by the AS1, but with the added benefit of increased setpoint accuracy. A choice of three, jumper-selectable input ranges allows the AS3 to be tailored to an application, providing more precise control through improved setpoint resolution. Self-powering, isolated solid-state outputs, 1-6A, 6-40A and 40-200A input ranges and a choice split- or solid-core enclosures are standard.

Applications

Electronic Proof of Flow

- No need for pipe or duct penetrations.
- More reliable than electro-mechanical pressure or flow switches.

Conveyors

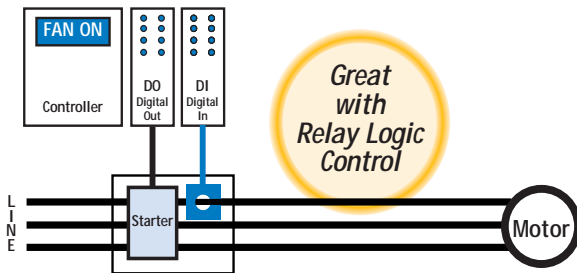
- Detects jams and overloads.
- Interlocks multiple conveyor sections.

Lighting Circuits

Easier to install and more accurate than photocells.

Electric Heaters

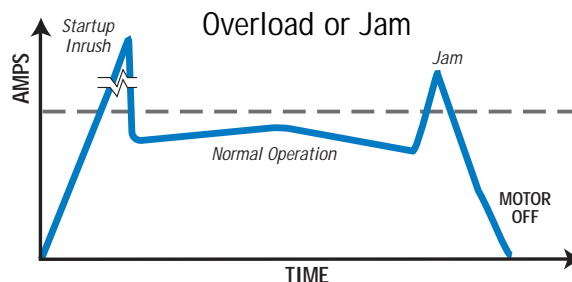
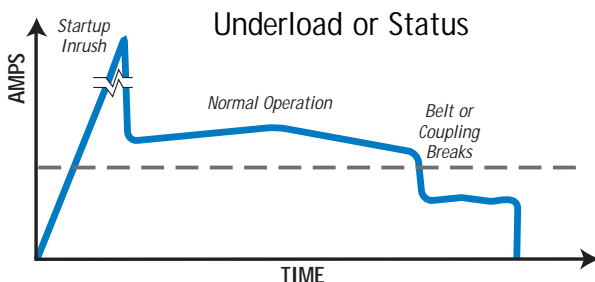
Faster response than temperature sensors.



MADE IN USA

Features

- **Choice of N.O. or N.C. Solid State Outputs**
 - 1A @ 240VAC, 0.15A @ 30VDC.
 - 15A @ 120VAC (-15 model).
- **Self-powered**
Cuts installation and operating costs.
- **Adjustable Setpoints**
Speeds startup.
- **Solid or Split-core Case**
Choose the appropriate version for each installation.
- **Built-in Mounting Feet**
Provides the secure installation inspectors require.
- **UL, CUL and CE Approval**
Accepted worldwide.



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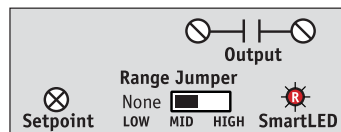
Know your power...
because with knowledge comes control.

Specifications

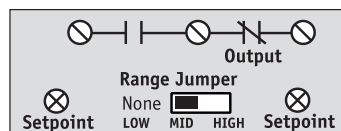
Power Supply	None — Self-powered		
Output	Isolated Solid State Switch		
Output Rating	1.0A @ 240VAC (Standard AC Units), 0.15A @ 30VDC (Standard DC & Multi-pole Units), 15A @ 120VAC, 10A @ 240VAC (-15 Option)		
Off State Leakage	<ul style="list-style-type: none"> ■ NOAC: < 10µA ■ NCAC: 2.5mA ■ AADC: < 10µA 	<ul style="list-style-type: none"> ■ NODC: < 10µA ■ NCDC: 1.4mA ■ CCDC: 0.3mA (NC terminal) 	
Response Time	40 - 120 ms		
Setpoint Range	<ul style="list-style-type: none"> ■ Fixed Core: 1-6, 6-40 & 40-175A ■ Split-core: 1.5-6, 6-40 & 40-200A 		
Hysteresis	5% of Setpoint		
Overload	RANGE	6 SEC	1 SEC
	■ 1-6A	400A	600A
	■ 6-40A	500A	800A
	■ 40-175A	800A	1,200A
Isolation Voltage	UL Listed to 1,270VAC (tested to 5,000VAC)		
Frequency Range	6-100Hz		
Sensing Aperture	<ul style="list-style-type: none"> ■ -FF Case: 0.55" (14mm) dia. ■ -SP Case: 0.85" (21.6mm) sq. 		
Case	UL 94V-0 Flammability Rated		
Environmental	-58 to 149°F (-50 to 65°C), 0-95% RH, non-condensing		
Listings	UL 508 Industrial Control Equipment (USA & Canada), CE		



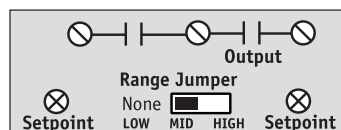
Connections



Typical of NOAC and NOAC-15
NCAC and NCAC-15
Similar



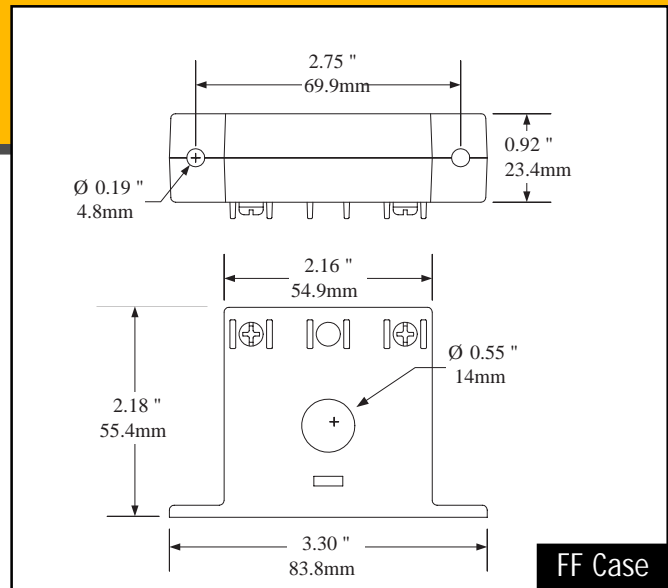
Typical of AS3-CCDC



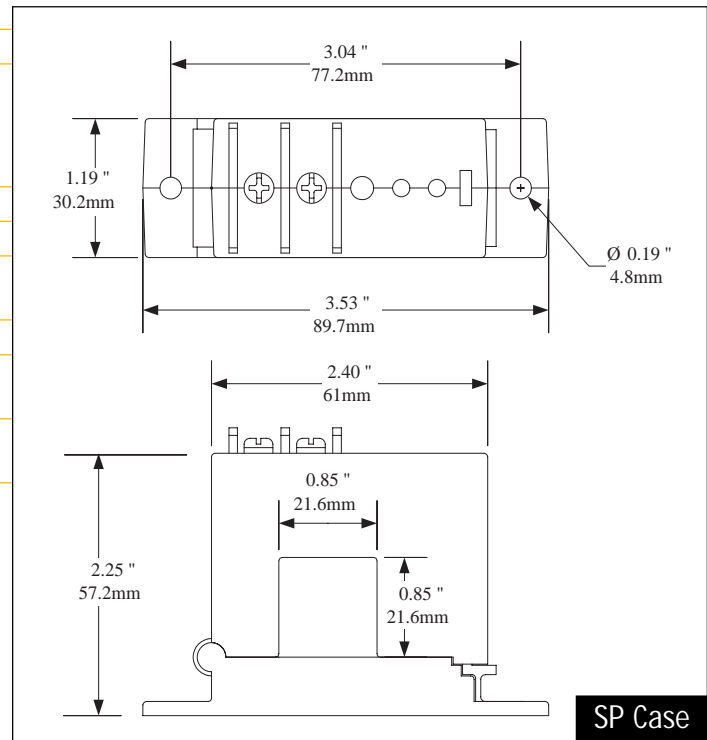
Typical of AS3-AADC

Notes:

- Terminals are #6 screws.
- DC contacts are polarity sensitive.



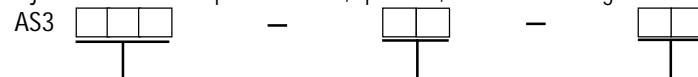
FF Case



SP Case

Ordering Information

Example: AS3-NOAC-SP-NL
Adjustable AC current operated switch, split-core, without indicating LED.



Output Rating

NOAC Normally Open, 1A @ 240VAC
NCAC Normally Closed, 1A @ 240VAC
NODC Normally Open, 0.15A @ 30VDC
NCDC Normally Closed, 0.15A @ 30VDC
AADC Dual Normally Open, 0.15A @ 30VDC (FF case only)
CCDC "Super" Form C SPDT, 0.15A @ 30VDC (FF case only)

Case Style

FF Fixed Core, Front Term.
FT Fixed Core, Top Term.
SP Split-core

Options

NL No LED
15 15 @ 120VAC (FF case only)
— With LED (Blank)

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