

AS1 Series



Current Operated Switches

Applications

Electronic Proof Of Flow

- Current operated switch eliminates need for multiple pipe or duct penetrations.
- More reliable than electromechanical pressure or flow switches.

Conveyors

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

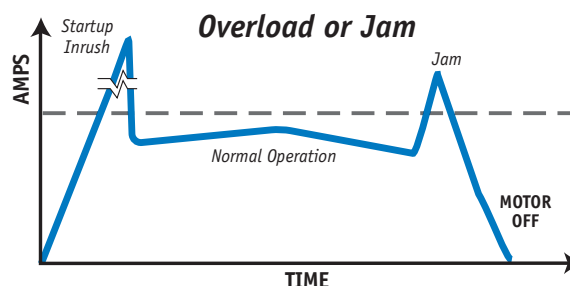
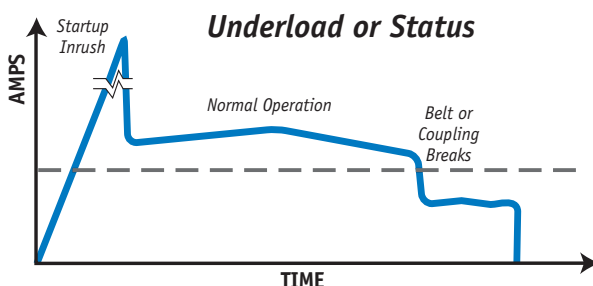
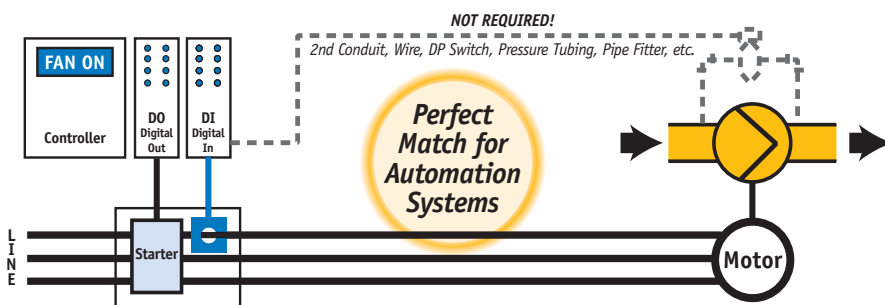
Lighting Circuits

Easier to install and more accurate than photocells.

Electric Heaters

Faster response than temperature sensors.

MADE IN
USA



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'AS1' Series Current Operated Switches from NK Technologies combine a current transformer, signal conditioner and limit alarm into a single package for use in status monitoring or proof of operation applications. Offering an extended setpoint range of 1-150A and universal, solid-state outputs, the self-powered AS1 can be tailored to provide accurate and dependable digital indication of over-current conditions across a broad range of applications. Available in solid-core enclosure styles or in a split-core case to maximize ease of installation.

Features

- **Universal Output**
 - N.O. or N.C. solid state switch for applications up to 240VAC/DC.
 - Compatible with most automation systems.
- **Self-powered**
 - Cuts installation and operating costs.
- **Easily Adjustable Setpoint**
 - Speeds startup.
- **Solid or Split-core Case**
 - Versions tailored for each installation.
- **Built-in Mounting Feet**
 - Simple, two-screw panel mount or attach optional DIN-rail brackets.
- **UL, CUL and CE Approval**
 - Accepted worldwide.

Specifications

Power Supply None — Self-powered
Output Magnetically Isolated Solid-State Switch

Output Rating ■ 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 ■ Fixed Core: 1–150A
 ■ Split-core: 1.75–150A

Hysteresis 5% of Setpoint

Overload	MODEL	6 SEC	1 SEC
■ -GO (NOU)	500A	1,000A	
■ -GO (NCU)	400A	1,000A	
■ All Other	400A	1,000A	

Isolation Voltage UL Listed to 1,270VAC, tested to 5,000VAC

Frequency Range 6–100Hz

Sensing Aperture ■ -FF Case: 0.55" (14mm) dia.
 ■ -FT Case: 0.74" (19mm) dia.
 ■ -SP Case: 0.85" (21.6mm) sq.

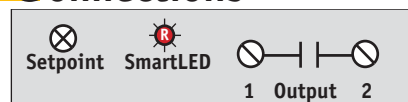
Case UL 94V-0 Flammability Rated

Environmental -58 to 149°F (-50 to 65°C),
 0–95% RH, non-condensing

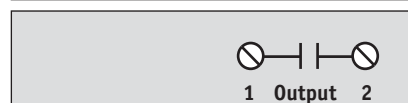
Listings UL 508 Industrial Control Equipment
 (USA & Canada), CE



Connections



*Typical of
Models with LED*



*Typical of
Go/No-Go Models*

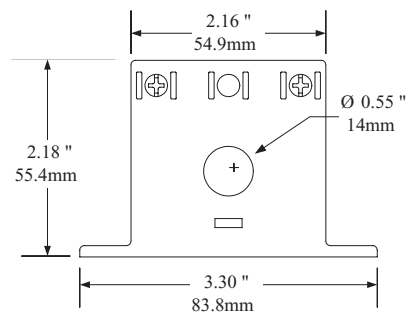
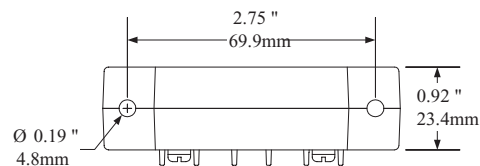
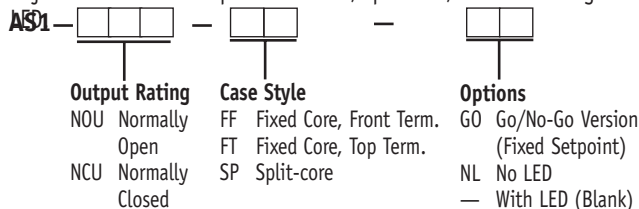
Notes:

- Terminals are #6 screws.
- Normally open contacts shown (NOU).
- Normally closed contacts similar (NCU).

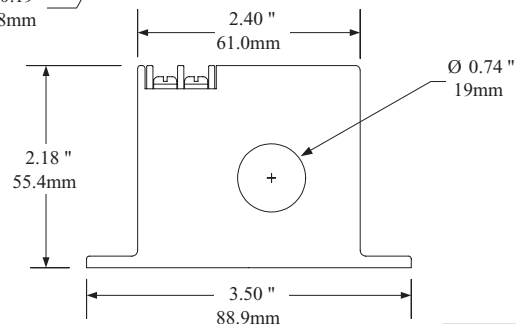
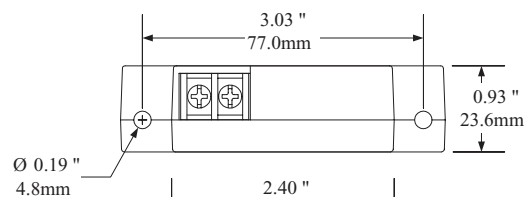
Ordering Information

Example: AS1-NOU-SP

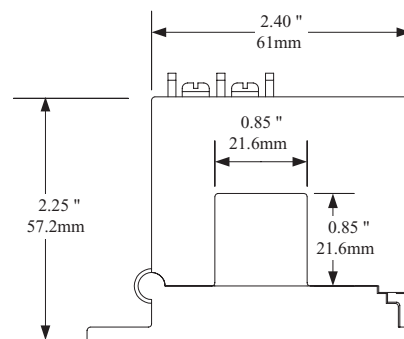
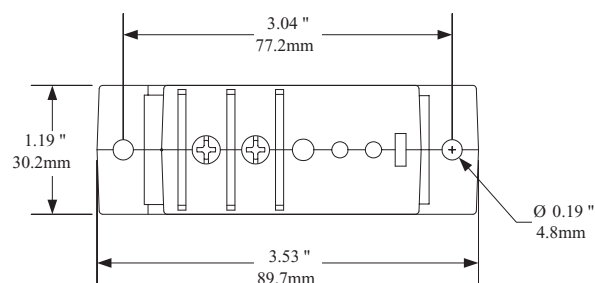
Adjustable AC current operated switch, split-core, with indicating



FF Case



FT Case



SP Case

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