AYA INSTRUMENTS

Solutions For Power & Process Control

5001 Baum Blvd. Pittsburgh, PA 15213

P: 412-622-5500 – F: 412-681-3773

www.ayainstruments.com

NK Technologies

Current Transducers — AS3 SERIES

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

Features

Choice of N.O. or N.C. Solid State Outputs
1A @ 240VAC, 0.15A @ 30VDC.
15A @ 120VAC (-15 model).
3A @ 120VAC output optional, consult factory.

Self-powered
Cuts installation and operating costs.

Easily Adjustable Set point
Speeds startup.

Solid or Split-core Case
Choose the appropriate version for each installation.

LED Indication
Provides quick visual indication of contact status.

Built-in Mounting Feet
Provides the secure installation inspectors require.

UL, CUL and CE Approval
Accepted worldwide.

Applications

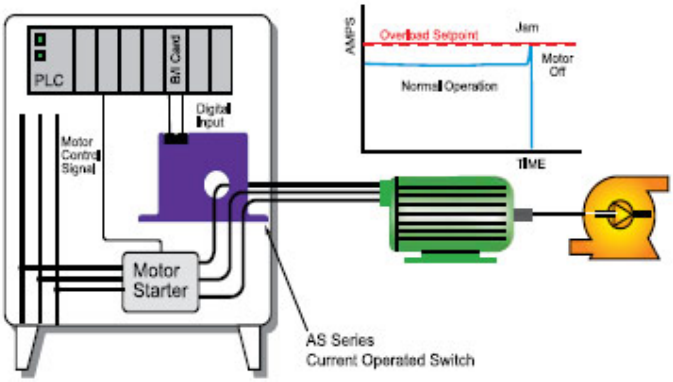
Electronic Proof of Flow
No need for pipe or duct penetrations.
More reliable than electro-mechanical pressure or flow switches.

Conveyors
Detects jams and overloads.
Interlocks multiple conveyor sections.

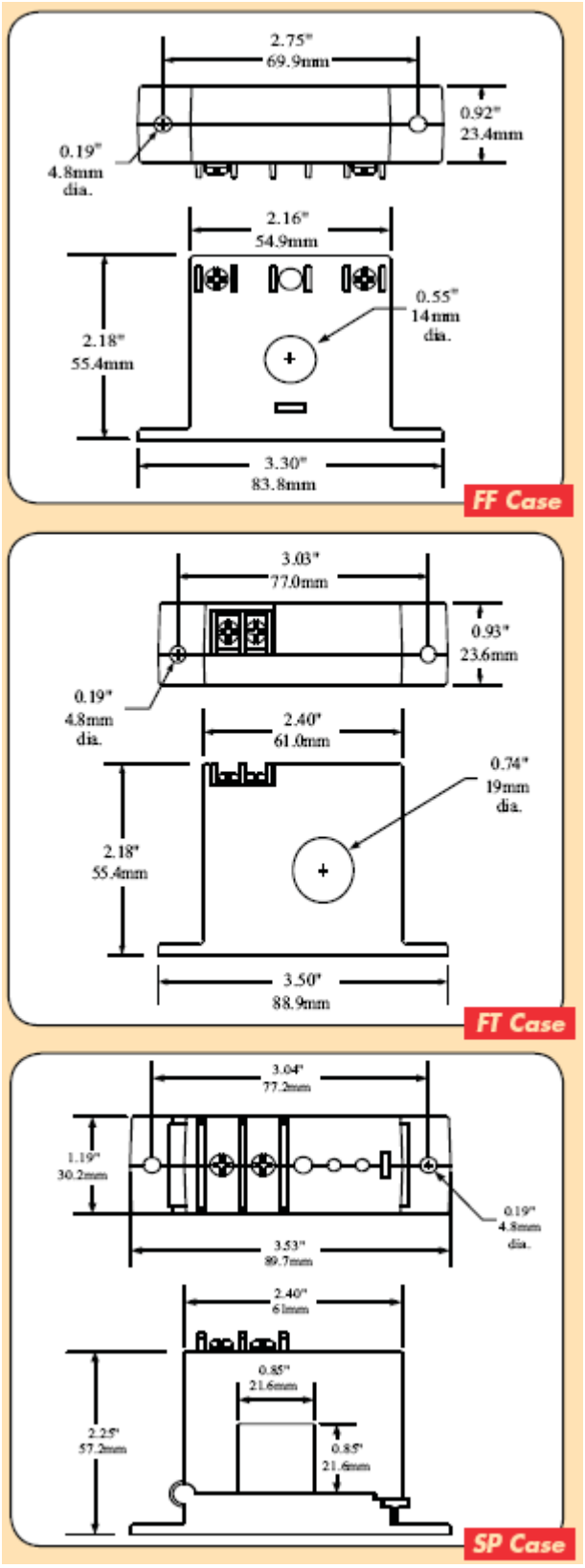
Lighting Circuits
Easier to install and more accurate than photocells.

Electrical Heaters
Faster response than temperature sensors.

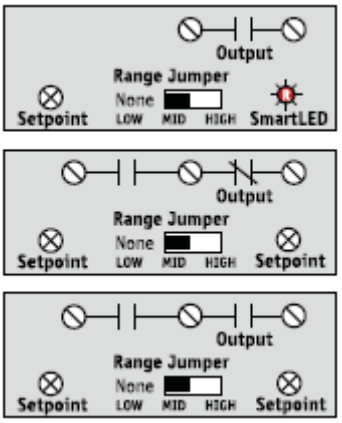
Pump Jam & Suction Loss Protection



Dimensions



Connections



Specifications

Power Supply	None—Self-powered		
Output	Isolated Solid-state Switch; Shared Common (CCDC)		
Output Rating	• 1.0A @ 240VAC (Standard AC Units) • 0.15A @ 30VDC (Standard DC & Multi-pole Units) • 15A @ 120VAC, 10A @ 240VAC (-15 Option) • 3.0A @ 120VAC* (-FT only)		
Off State Leakage	• NOAC: <10µA • NCAC: 2.5mA • AADC: <10µA	• NODC: <10µA • NCDC: 1.4mA • CCDC: 0.3mA (NC Terminal)	
Response Time	40–120ms		
Setpoint Range	• Solid-core: 1–6, 60–40 & 40–175A • Split-core: 1.75–6, 60–40 & 40–200A		
Hysteresis	Low: 0.15A, Mid: 0.3A, High: 0.9A		
Overload	Range	6 Sec	1 Sec
	• 1–6A • 6–40A • 40–175A	• 400A • 500A • 800A	• 600A • 800A • 1,200A
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	UL94 V0 Flamability Rated		
Environmental	-58 to 122°F (-50 to 50°C) 0–95% RH, non-condensing		
Listings	UL 508 Industrial Control Equipment (USA & Canada), CE		

*N.O/N.C. 3A @ 120VAC output please consult factory.

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