AYA INSTRUMENTS

Solutions For Power & Process Control

5001 Baum Blvd. Pittsburgh, PA 15213

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www.ayainstruments.com

NK Technologies

Current Transducers

AS1 SERIES

AS1 Series Current Operated Switches 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 set point 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 control circuits up to 240VAC/DC.
Compatible with most automation systems.

Self-powered
Cuts installation and operating costs.

Easily Adjustable Set point
Speeds startup.

Solid or Split-core Case
Versions tailored for each installation.

LED Indication
Provides quick visual indication of contact status.

Built-in Mounting Feet
Simple, two-screw panel mount or attach with optional DIN-rail brackets.

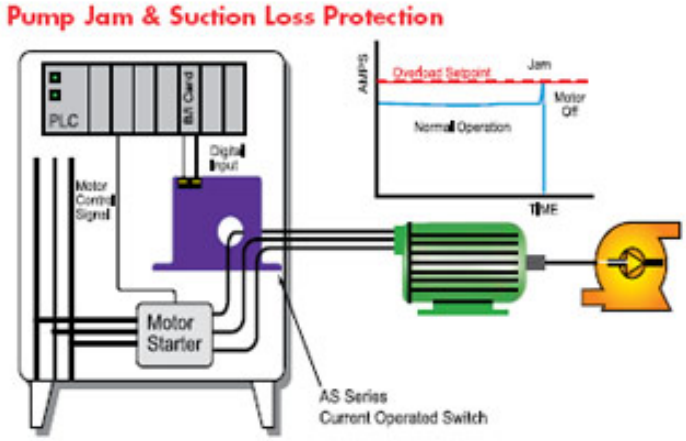
Applications

Electronic Proof of Flow
Current operated switches eliminate the need for multiple pipe or duct penetrations and is more reliable than electromechanical pressure or flow switches.

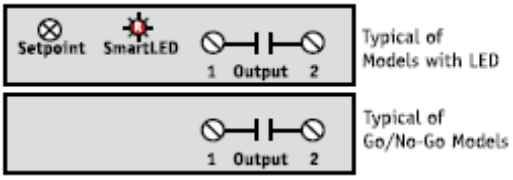
Conveyors
Detects jams and overloads.
Interlocks multiple conveyor sections.

Lighting Circuits
Easier to install and more accurate than photocells.

Electrical Heaters
Faster response than temperature sensors.

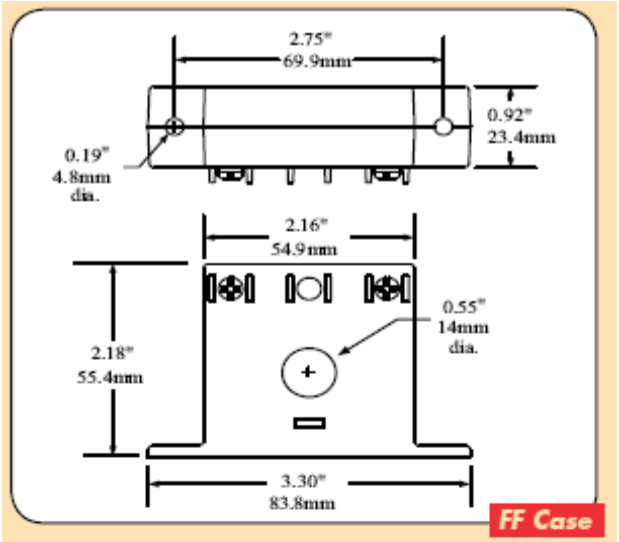


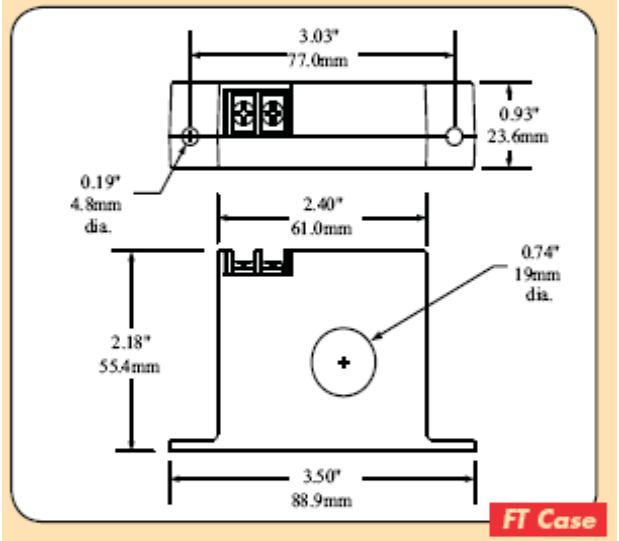
Connections

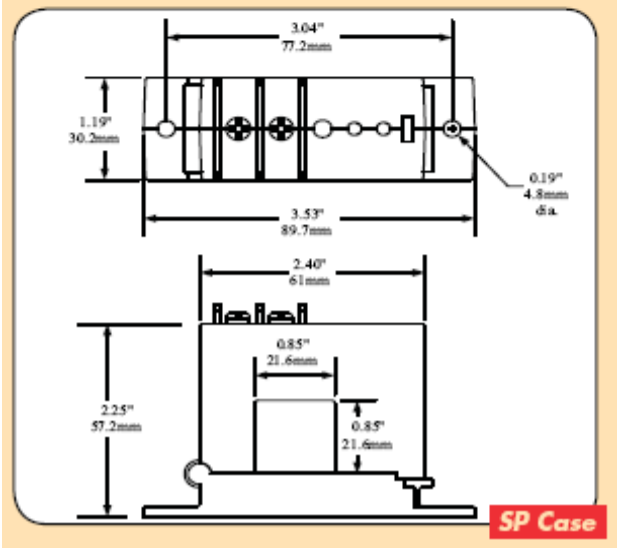


Dimensions

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	● Solid-core: 1–150A ● Split-core: 1.75–150A		
Hysteresis	5% of Setpoint		
Overload	MODEL	6 SEC	1 SEC
	●-GO(NOU) ●-GO(NCU) ● All other	● 500A ● 400A ● 400A	● 1000A ● 1000A ● 1000A
Isolation Voltage	UL Listed to 1270VAC, tested to 5000VAC		
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 Flammability Rated		
Environmental	-58 to 122°F (-50 to 50°C) 0–95% RH, non-condensing		

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