

ASM Series



The 'ASM' Series Load Monitoring Switches from NK Technologies are designed for overload, underload or operating window applications. Upon sensing an average operating current, the ASM self-learns and establishes a limit-alarm trip point based on +/- 15% of the average expected current draw. The ASM offers a choice of solid state outputs and is available in solid or split-core enclosure styles.

Self-Calibrating Current Operated Switches

Applications

Conveyors (-OL option)

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

Electronic Proof of Flow (-UL option)

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

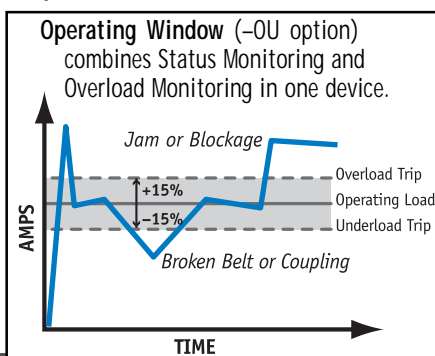
Pump Protection (-OU option)

Provides overload (jams) and underload (suction loss) indication.

Features

- **Self-powered & Self Calibrating**
Speeds start-up, cuts installation costs.
- **Choose the Operating Style that Matches your Application**
Status monitoring, overload and operating window options.
- **Universal Output**
AC or DC compatibility with any automation system.
- **UL, CUL and CE Approval**
Accepted worldwide.

Operation



Specifications

MADE IN
USA




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	200 ms
Setpoint Range	<ul style="list-style-type: none"> ■ 1.5–150A (Fixed Core) ■ 2.8–150A (Split-core)
Setpoint	<ul style="list-style-type: none"> ■ Overload: +15% of Load (-OL) ■ Underload: -15% of Load (-UL) ■ Operating Window: +/-15% of Setpoint
Hysteresis	5% of Setpoint
Overload	500A @ 6 s, 1,000A @ 1 s
Isolation Voltage	UL Listed to 1,270VAC (tested to 5,000VAC)
Frequency Range	6–100Hz
Dimensions	■ 3.50" x 2.25" x 1.20", Aperture: 0.74" - 0.85"
Case	UL 94V-0 Flammability Rated
Environmental	-58 to 149°F (-50 to 65°C), 0–95% RH
Listings	UL 508 Industrial Control Equipment (USA & Canada), CE (Pending)



Ordering Information

Example: ASM-NOU-OL-SP

AC current operated switch, normally open, self-calibrating overload operation in a split-core case.

ASM		—		—	
Output Rating			Operation		Case Style
NOU	Normally Open (closed while current is within +/-15% window)		OL	Overload	FT Fixed Core, Top Term.
NCU	Normally Closed (open while current is within +/-15% window)		UL	Underload (Status)	SP Split-core
			OU	Over/Underload (Operating Window)	