

AKS 125 C - Current Operated Switches

$$I_{PN} = 1 \dots 150 \text{ A}$$

Combine a current transformer, signal conditioner and limit alarm into a single package. The AKS 125 series has an extended current input range, universal solid-state outputs and a wide frequency response.



Electrical data

I_p	Primary current, measuring range	1 - 150	A
I_{OC}	Overload capability @	Continuous	6sec
		150	400
		1sec	1000
S	Output signal	AKS 125 C NOU - 0.15 A @ 240 V AC or V DC Normally Open	AKS 125 C NCU - 0.2 A @ 135 V AC or V DC Normally Closed Self Powered
V_c	Supply voltage		
V_b	Rated voltage (CAT III, PD2)	150	V AC
V_d	R.m.s. voltage for AC isolation test, 50 Hz, 1 mn	3	kV

Accuracy - Dynamic performance data

e_H	Hysteresis (of setpoint)	± 5	%
t_r	Response time @ 90 % of I_{PN}	120	ms
f	Frequency range	50-60	Hz

General data

T_A	Ambient operating temperature	- 50 + 50	°C
T_S	Ambient storage temperature	- 50 + 70	°C
m	Mass	140	g
	Safety	IEC 61010-1	
	EMC	EN 61326	

Options

Available references: **AKS 125 C NCU**
AKS 125 C NCU NL
AKS 125 C NOU
AKS 125 C NOU NL

NL : without LED

Features

- Universal Output
 - Solid state switch N.C. or N.O. works on AC or DC to 240V AC.
 - Compatible with any automation system.
- Self-powered
Cuts installation and operating costs.
- Easily Adjustable Setpoint
Speeds startup
- Built-in Mounting Bracket
Provides the solid installation inspectors want.

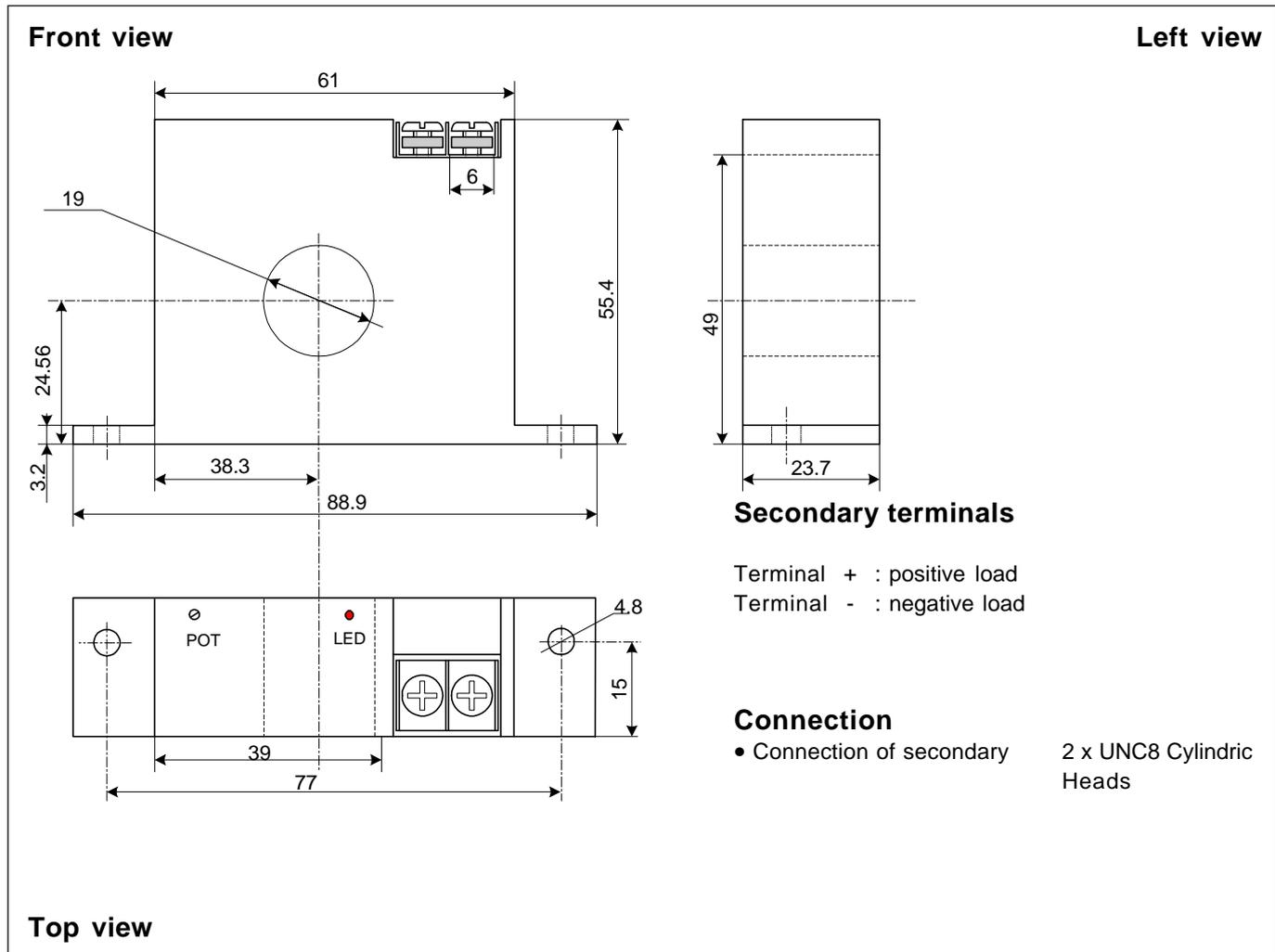
Applications

- Electronic Proof of Flow
 - No need for 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.

Option

- DIN mounting

Dimensions AKS 125 C- (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance ± 1 mm
- Fastening 2 holes $\varnothing 4.5$ mm
- Primary through-hole $\varnothing 19$ mm

Remarks

- Temperature of the primary conductor should not exceed 60°C .
- Dynamic performances (di/dt and response time) are best with a single bar completely filling the primary hole.

Threshold Levels:

