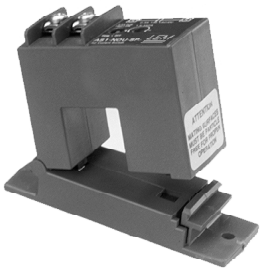
AKS 125 B -
Current Operated Switches

I_{PN} = 1.5 .. 150 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. Available in a clamp on case.



Electrical data

I_P	Primary current, measuring range			1.5 - 150	A
I_{OC}	Overload capability @	Continuous	6sec	1sec	
		150	400	1000	A
S	Output signal	**AKS 125 B NOU -**		**AKS 125 B NCU -**	
		0.15 A @ 240 V AC or V DC		0.2 A @ 135 V AC or V DC	
		Normally Open		Normally Closed	
V_C	Supply voltage			Self Powered	
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

ε_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 + 65	°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 B NCU
AKS 125 B NCU NL
AKS 125 B NOU
AKS 125 B NOU NL

NL : without LED

Features

- Universal Output
  - Solid state switch N.C. or N.O. works on AC or DC to 240 V 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.

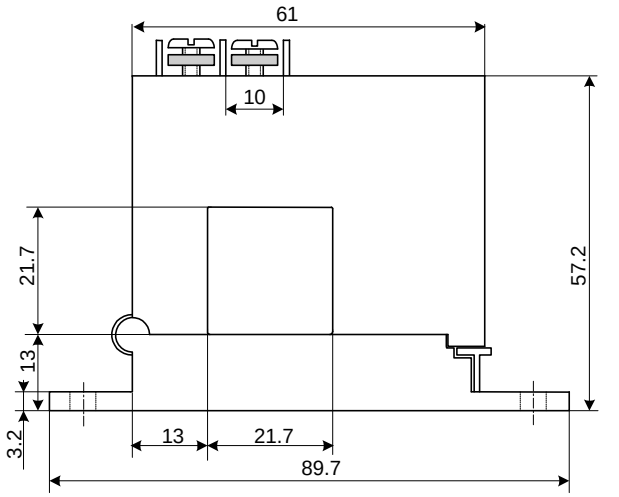
Option

- DIN mounting.

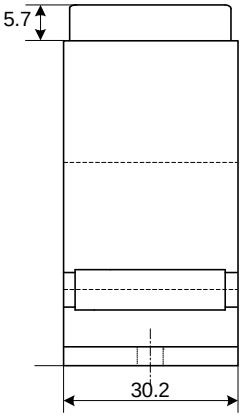
050620/4

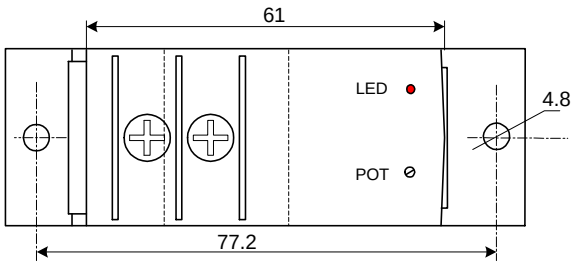
Dimensions AKS 125 B - (in mm. 1 mm = 0.0394 inch)

Front view



Left view





Secondary terminals

Terminal + : positive load
Terminal - : negavitve load

Connection

- Connection of secondary — 2 x UNC8 Cylindric Heads

Top view

Mechanical characteristics

- General tolerance — ± 1 mm
- Fastening — 2 holes ∅ 4.5mm
- Primary through-hole — 21.7 mm sq.

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: