

# AKS - C NOAC - Ground Fault Sensors

$I_{PN} = 5 \dots 950 \text{ mA}$

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



## Electrical data

$I_p$	Primary current	5 .. 950	mA AC
<b>S</b>	Output signal	1 A @ 240 V AC	
<b>f</b>	Frequency range	50-400	Hz
$V_c$	Supply voltage (Operates 55-110% of $V_c$ )	<b>AKS - C NOAC 120 FS</b>	120 VAC
		<b>AKS - C NOAC 120 NF</b>	120 VAC
		<b>AKS - C NOAC 240 FS</b>	240 VAC
		<b>AKS - C NOAC 240 NF</b>	240 VAC
		Supply voltage (Operates +/-10% of $V_c$ ) :	
		<b>AKS - C NOAC 24U FS</b>	24 VAC/DC
		<b>AKS - C NOAC 24U NF</b>	24 VAC/DC
$V_b$	Rated voltage (CAT III, PD2)	150	VAC
$V_d$	R.m.s. voltage for AC isolation test, 50 Hz, 1 mn	3	kV

## Features

- Operation to Match Your Application: Auto-Reset—For controlling shunt trip breakers.
- Factory adjusted setpoint.
- Compatible with Standard Equipment  
Works on 1 phase or 3 phase power. Controls standard shunt trip breakers or contactors. Tie into Emergency Circuits (EMO/EPO).
- Isolated  
Magnetically isolated from the monitored circuit and control power.

## Accuracy - Dynamic performance data

$t_r$	Response time @ 105 % of $I_{p\text{adj}}$	200	ms
	@ 150 % of $I_{p\text{adj}}$	60	ms
	@ 600 % of $I_{p\text{adj}}$	15	ms

## General data

$T_A$	Ambient operating temperature	- 15..+ 70	°C
<b>m</b>	Mass	140	g
	Safety	IEC 61010-1	
	EMC	EN 61326	

## Options

- FS Normally Energized: Protection from faults and loss of control power.  
 NF Normally Deenergized: Protection from faults only when control power is applied

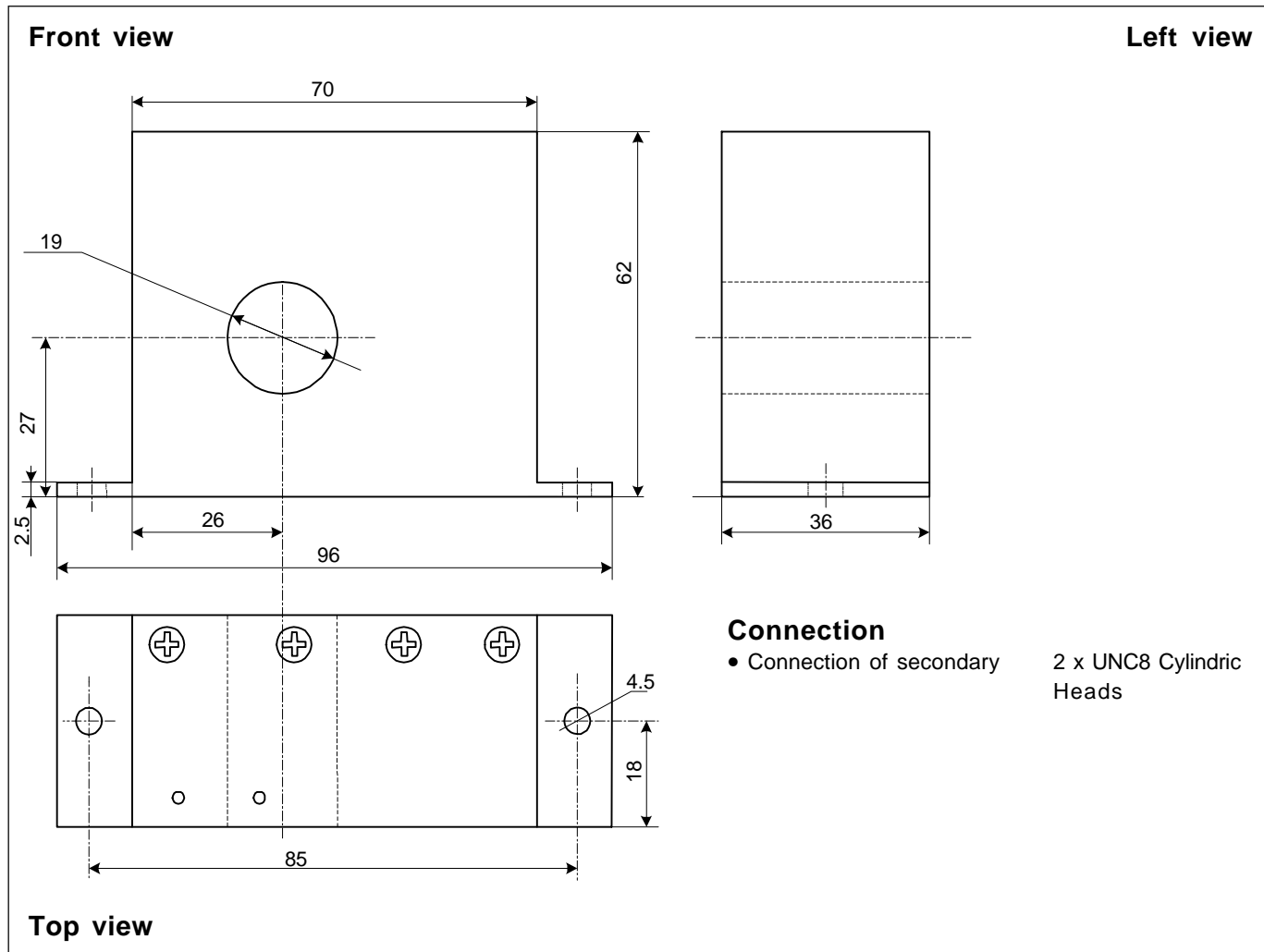
		Control power applied		
		No Power	No fault	Fault
FS		Open	Closed	Open
NF		Open	Open	Closed

$I_{p\text{adj}}$ : Setpoint current adjusted by the user.

## Applications

Regulatory Approval  
 Meet requirements by industry groups and governments for Ground Fault Protection.

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



**Mechanical characteristics**

- General tolerance  $\pm 1$  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.