

AC Current transducer AK-B420L

A Split Core transducer for the electronic measurement AC sinusoidal waveforms current, with galvanic isolation between the primary (High power) and the secondary circuits (Electronic circuit). Jumper selectable ranges and 4-20mA current output.



$$I_{PN} = 2 \dots 200A$$



Electrical data

Primary Nominal Current I_{PN} (A.t.RMS)	Analogue Output Signal ¹⁾ I_{OUT} (mA)	Type	RoHS Date Code
2,5	4-20	AK 5 B420L	JULY 2006
10,20,50	4-20	AK 50 B420L	MAY 2006
100,150,200	4-20	AK 200 B420L	planned
V _c Supply voltage (Loop powered)		24	V DC
R _L Load resistance	see power supply diagram		
V _b Rated voltage (CAT III, PD2)		150	VAC
V _d RMS Isolation voltage test, 50 Hz, 1mn		3	kV AC
f Frequency bandwidth		20-100	Hz

Accuracy - Dynamic performance data

X	Accuracy @ I_{PN} , $T_A = 25^\circ C$	± 1	%
t _r	Response time @ 90% of I_{PN}	< 300	mS

General data

T _A	Ambient operating temperature (0-95% RH)	-20...+50	°C
T _S	Ambient storage temperature	-20...+85	°C
m	Mass	120	g
	Safety	IEC 61010-1	
	EMC	EN 61326	

Features

- AC sinusoidal measurement
- Average responding
- Split core box
- Current output
- Loop powered transducers
- Panel mounting
- Jumper selectable ranges

Advantages

- Large aperture
- High isolation between primary and secondary circuits
- Easy to mount

Applications

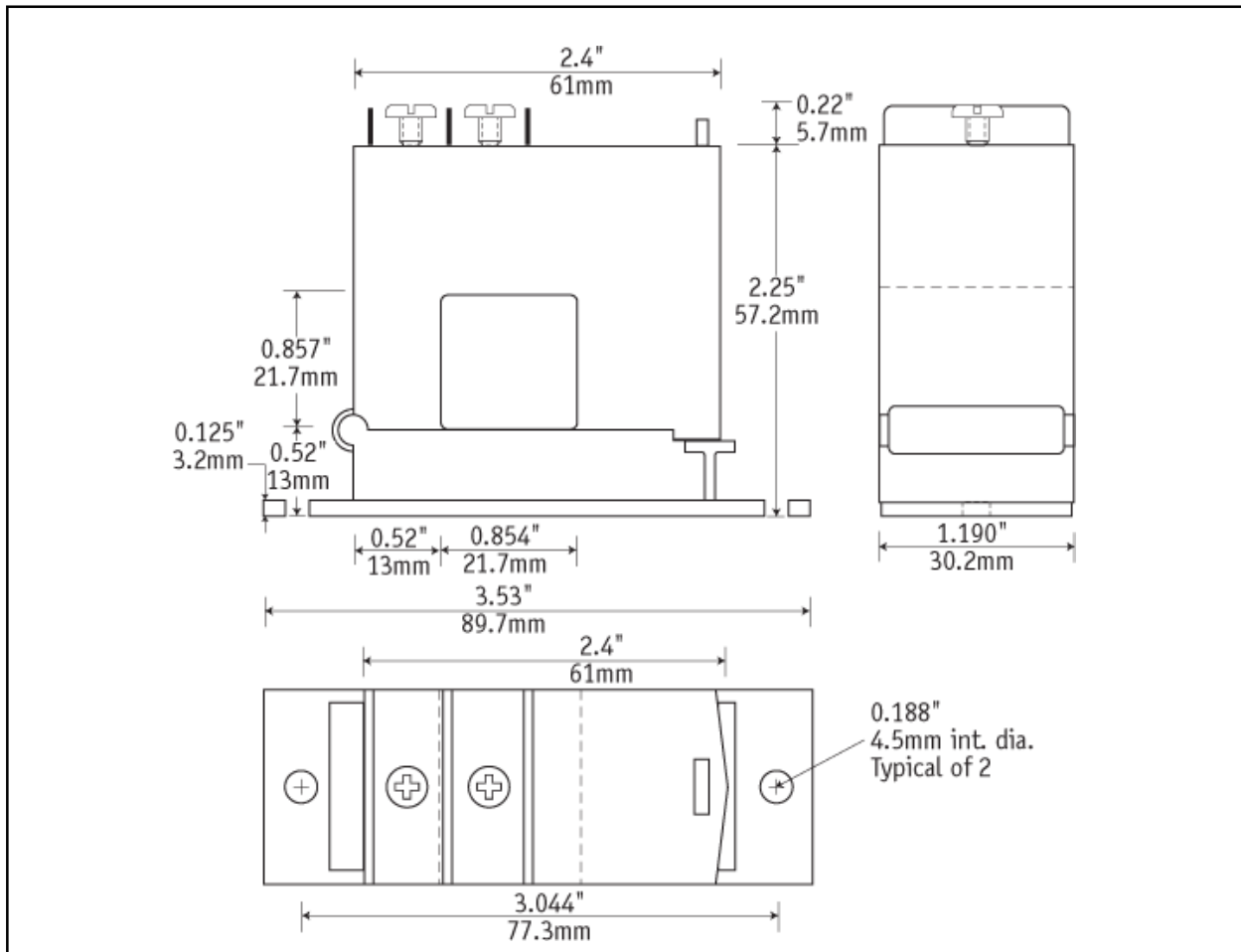
- Automation systems
Analog current reading for remote monitoring (e.g. motor).
- Data loggers
Self-powered transducer does not drain data logger batteries.
- Panel meters
Simple connection displays power consumption.

Options on request

- DIN mounting

Note : ¹⁾ For 4-20mA output model, no saturation output up to 25mA.

(unit : mm, 1mm = 0.0394 inch)

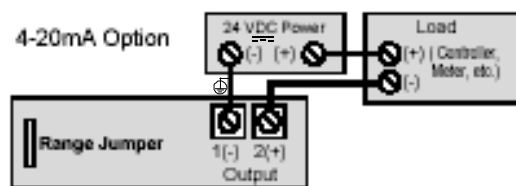


Mechanical characteristics

- General tolerance ± 1 mm
- Primary aperture 21.7 mm sq.
- Panel mounting 2 holes Ø 4.5mm
- Distance between holes 77.3 mm

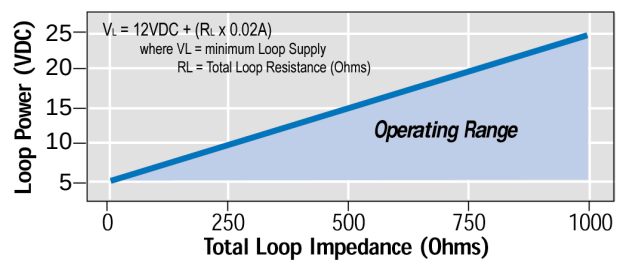
Connections

- 2 x UNC8 Cylindric Head



Notes: -Captive screw terminals.
-12-22 AWG solid or stranded.
-Observe polarity.

Power Supply diagram



Remark

- Temperature of the primary conductor should not exceed 60°C.