

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.









Electrical data

Prima	ry Nominal Current	Analogue Output	Signal ¹⁾ Type	RoHS
I _{PN}	(A.t.RMS)	I _{OUT} (mA)		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
Vc	Supply voltage (Loo	p powered)	24	V DC
R_L	Load resistance	see	power supply diagram	า
V _b	Rated voltage (CAT	III, PD2)	150	VAC
V_{d}	RMS Isolation voltage	je test, 50 Hz, 1mn	3	kV AC

Accuracy - Dynamic performance data

Frequency bandwith

Χ	Accuracy@ I _{PN} , T _A =25℃	± 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	

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

$I_{PN} = 2 ... 200A$



Features

- AC sinusoïdal 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

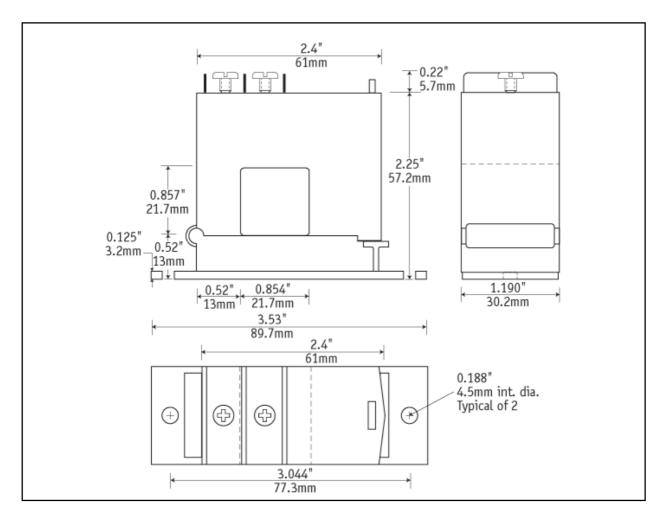
• DIN mounting

20-100

Hz



Dimensions AK-B420L (unit: mm, 1mm = 0.0394 inch)

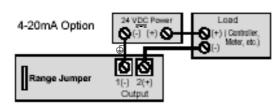


Mechanical characteristics

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

Connections

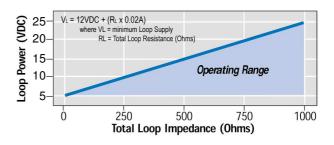
• 2 x UNC8 Cylindric Head



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 ℃.

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LEM reserves the right to carry out modifications on its transducers, in order to improve them, without previous notice.