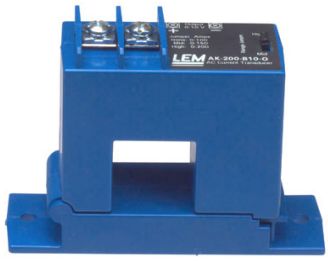
AC Current transducer AK-B-

I_{PN} = 10..200A

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 self powered transducers.



Electrical data

Primary Nominal Current I_{PN} (A.t RMS)	Analogue Output Signal[1] V_{OUT} (V DC)	Type	RoHS Date Code
10,20,50	5	**AK 50 B5**	JULY 2006
10,20,50	10	**AK 50 B10**	
100,150,200	5	**AK 200 B5**	
100,150,200	10	**AK 200 B10**	JULY 2006

Vc	Supply voltage	Self Powered	
R_L	Load resistance	1	MΩ
V_b	Rated voltage (CAT III, PD2)	150	V AC
V_d	RMS Isolation voltage test, 50 Hz, 1mn	3	kV AC
f	Frequency bandwith	50-60	Hz

Accuracy - Dynamic performance data

X	Accuracy @ I_{PN}, T_A=25°C	± 1	%
t_r	Response time @ 90% of I_{PN}	< 100	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
	Protection type	IP20	
	Safety	IEC 61010-1	
	EMC	EN 61326	

Note: [1] For 0-5 V output model, no saturation output up to 8.2 V and for 0-10 V output model, no saturation output up to 15 V

Features

- AC sinusoïdal measurement
- Average responding
- Split core box
- Self powered transducers
- Panel mounting
- Voltage output
- Jumper selectable ranges

Advantages

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

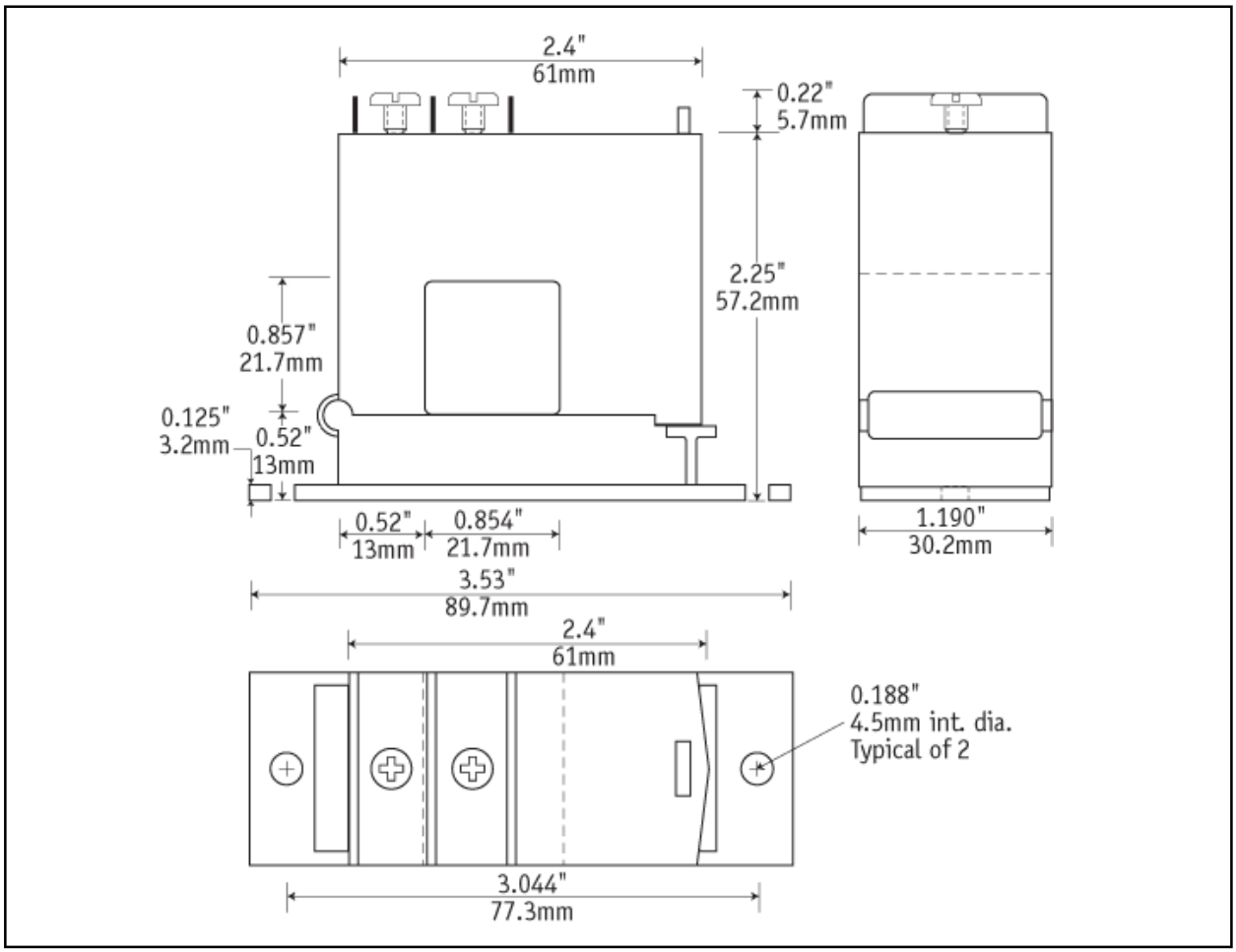
Applications

- 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

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



Mechanical characteristics

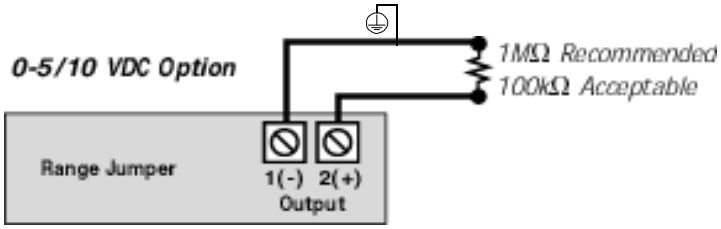
- General tolerance ± 1 mm
- Primary aperture 21.7 mm sq.
- Panel mounting 2 holes ∅ 4.5mm
  Distance between holes 77.3 mm

Remark

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

Connections

- 2 x UNC8 Cylindric Head



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LEM:

LESR 15-NP 30027567 HOB 130-P HOB 50-P 90.N8.19.000.0 AHR 500 B10 DHR 100 C5 HX 10-NP LA 25-NP LA200-P DVL 150 HX 05-NP LA 100P/SP13 LXS 25-NPS CKSR 15-NP DHR 100 C420 HLSR 10-P HO 10-P/SP33 HO 50-/SP30 90.M4.99.003.0 DK 300 B10 HO 180-P-0100 LAH 25-NP LAH 50-P HO 250-S/SP30-0100 HOB 75-P/SP33 DHR 200 C10 HOYL 800-S/SP33-1106 HX 10-P/SP2 HXS 10-NP/SP3