



## 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	Analogue Output Signal <sup>1)</sup>	Type	RoHS
$I_{PN}$ (A.t RMS)		$V_{OUT}$ (V DC)		Date Code
10,20,50		5	<b>AK 50 B5</b>	JULY 2006
10,20,50		10	<b>AK 50 B10</b>	
100,150,200		5	<b>AK 200 B5</b>	
100,150,200		10	<b>AK 200 B10</b>	JULY 2006

$V_c$	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 bandwidth	50-60	Hz

### Accuracy - Dynamic performance data

X	Accuracy @ $I_{PN}$ , $T_A=25^\circ C$	$\pm 1$	%
$t_r$	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:** <sup>1)</sup> 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 sinusoidal 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

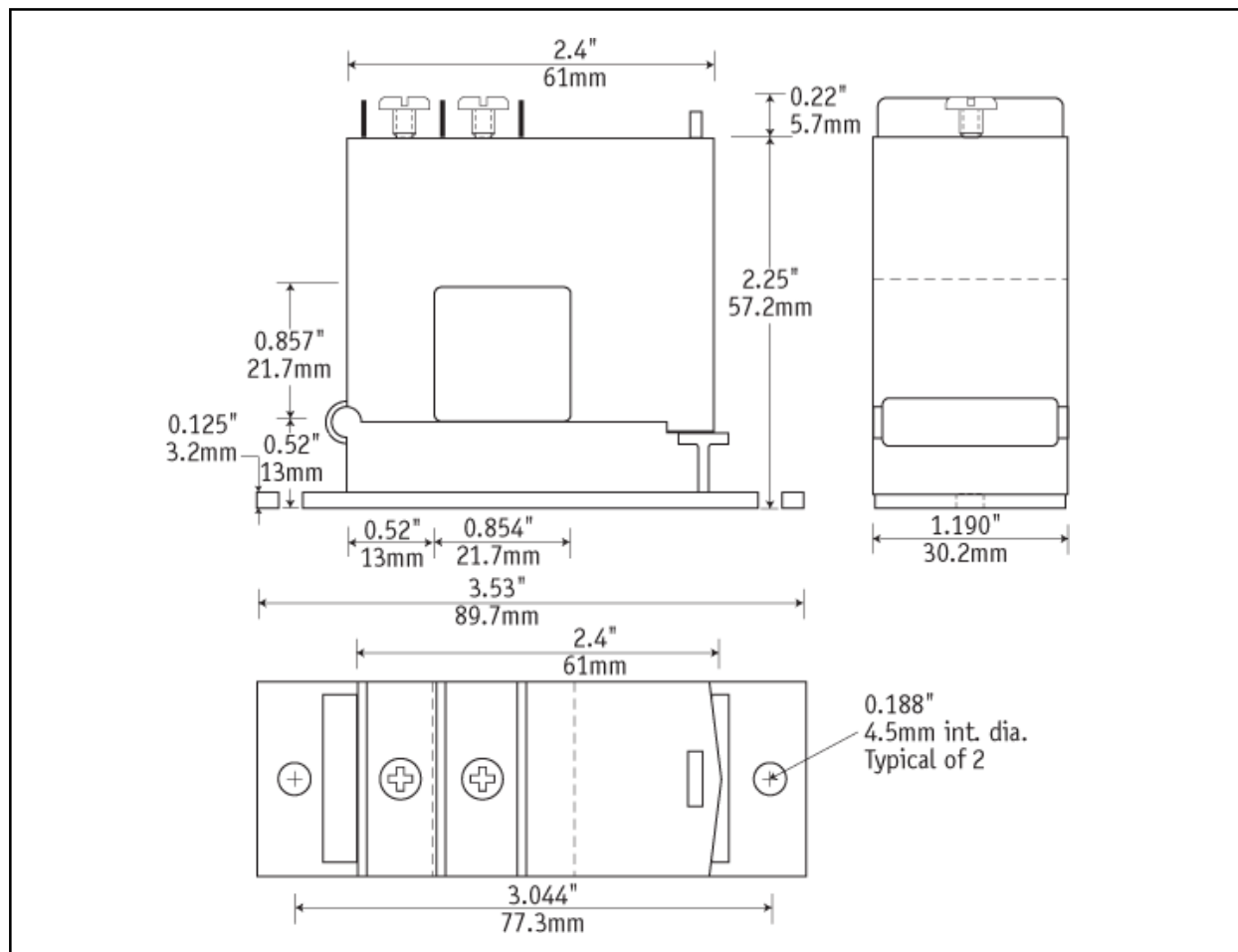
- Automation systems  
Analog current reading for remote monitoring (e.g. motor).
- Data loggers  
Self-powered transducer does not drain data logger batteries.
- Panel meters  
Simple connection displays power consumption.

### Options on request

- DIN mounting



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



### Mechanical characteristics

- General tolerance  $\pm 1$  mm
- Primary aperture 21.7 mm sq.
- Panel mounting 2 holes  $\varnothing$  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

