

AC Current transducer AP-B10

Split core transducer for the electronic measurement AC waveforms current, with galvanic isolation between the primary (High power) and the secondary circuits (Electronic circuit). Switch selectable ranges and RMS 0-5V and 0-10V switch selectable voltage output.





Elec	trical data				
	Iominal Current A.t.RMS)	Analogue Output Signal V _{out} (V)	Туре		_
10,25,50 0-5V or 0-10V			50 B10)	
50,75,100			100 B1	0	
,,			200 B1		
200,300,400			400 B1	0	
R	Load resistance		≥ 10		kΩ
V _c	Supply voltage		+24 ±5	% V	_
C	Current Consump		< 30		mΑ
	Limitation of volta	. ,	14		V
	Limitation of voltage output (0-5V)		7		V
	Overloaded input	current	no limit	atio	n
Accı	uracy-Dynamic	performance data			
X	Accuracy @ I _{PN} , T	_A = 25°C (without offset)	< ±1	% (of I _{PN}
$\mathbf{e}_{{\scriptscriptstyle L}}$	Linearity (0 ± I _{PN})	$< \pm 0.5$		of I _{PN}
V OF	Electrical offset vo		$< \pm 0.5$		
V _{OT}	Thermal drift of V		±1		ηV/K
тče _с			±0.1		%/K
t _r	Response time @	90% of I _p	< 150		ms
f	Frequency bandw		30 20	00	Hz
Gen	eral data				
T _A	Ambient operating	g temperature	-20 +6	60	°C
T s	Ambient storage	temperature	-20 +8	85	°C
m	Mass		90		g
	Protection type		IP20		
dCp	Creepage distant	ce	5.5		m m
dCl	Clearance distan		5.5		m m
CTI	Comparative track	king index (Group I)	600		V
	UL94 classification		V0		
Insu	lation category				
V _b	Rated Voltage		300		
D		standards and following conditions:			
	- Single insula				
		category CAT III			
	- Pollution dec				
	- None uniforn				
$\mathbf{V}_{_{d}}$	R.m.s. voltage for AC insulation test, 50Hz, 1mn		5		kV
V .	R.m.s. voltage for partial discharge extinction @ 10pC		1.5		kV
V _w	Peak impulse withstand voltage 1.2/50µs				kV
- w		is used for the primary circuit, the volta	6.1 age cate	egor	
	could be improved with the following table:				
	Cable insulation				
	HAR 05	600V CAT III			
	HAR 07	1000V CAT III			
	11/11/07	1000 V O/ (1 III			

$I_{PN} = 10 ... 400 A$



Features

- RMS output
- Split core type
- 5V & 10V switch selectable voltage output
- DIN mounting & Panel mounting
- Eliminates insertion loss
- Switch selectable ranges

Advantages

- Large aperture for cable up to Ø18mm
- High isolation between primary and secondary circuits
- Easy to mount

Applications

- Automation systems
 Analog current reading for remote monitoring (e.g. motor) and software alarms.
- Panelmeters
 Simple connection displays power consumption.

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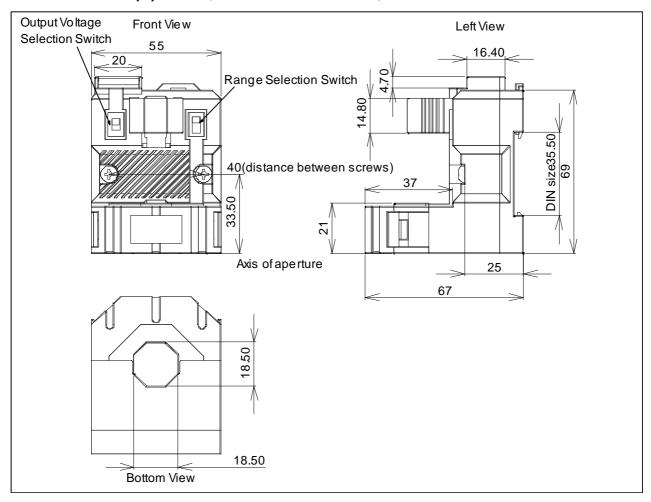
Notes: Installation and maintenance should be done with power supply disconnected. The operator must have accrediation to install this material.

The users must take care of all protection gurantee against electrical shock.

LEM Components www.lem.com



Dimensions AP(R)-B10 (unit: mm, 1mm = 0.0394 inch)



Mechanical characteristics

General tolerance ±1 mm
 Primary aperture Ø 18.5 mm
 Panel mounting 2 holes Ø 4.0 mm

• Distance between holes 40.0 mm

For panel mounting, replace M4 screws by new one (not supplied) with appropriate length to panel's thickness.

Connections

Wires up to 2 mm Ø
0-5, 10V Selectable

