

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.





Preliminary

Electri	cal data			
Primary Nominal Current I _{PN} (A.t.RMS)		Analogue Output Signal $V_{\text{OUT}}(V)$	Туре	
10,25,50		0-5V or 0-10V	AP 50 B10)
50,75,100		0-5V or 0-10V	AP 100 B10	
100,150,200		0-5V or 0-10V	AP 200 B1	10
200,300,400		0-5V or 0-10V	AP 400 B10	
R L V C V d	Load resistance Supply voltage R.m.s. voltage for A Limitation voltage of	AC isolation test, 50/60Hz, 1 mn output	≥ 10 +24±5% 5 18	kΩ V DC kV V

Accuracy-Dynamic performance data

X	Accuracy @ I_{PN} , $T_A = 25^{\circ}C$ (without offset)	< ±1	% of I_{PN}
e	Linearity (0 ± I _{PN})	$< \pm 0.5$	% of I _{PN}
V _{OE}	Electrical offset voltage, $T_{A} = 25^{\circ}C$	$< \pm 0.5$	% of I _{PN}
V _{OT}	Thermal drift of V _{OF}	±1	mV/K
TČ e	Thermal drift of the gain (% of reading)	±0.1	%/K
t,	Response time @ 90% of Ip	< 500	ms
f	Frequency bandwidth (-3 dB)	10600	00 Hz

General data

Ambient operating temperature	-20 +60	°C
Ambient storage temperature	-20 +85	°C
Mass	90	g
Protection type	IP20	
Reliable isolation according to EN50178, EN61010	300	VAC
Creepage distance	>5.5	mm
EMC in accordance with EN50082-2		
Plastic according to UL94V0, CTI 1		
	Ambient storage temperature Mass Protection type Reliable isolation according to EN50178, EN61010 Creepage distance EMC in accordance with EN50082-2	Ambient storage temperature -20 +85 Mass 90 Protection type IP20 Reliable isolation according to EN50178, EN61010 300 Creepage distance >5.5 EMC in accordance with EN50082-2

Notes: Installation and maintenance should be done with power supply disconnected.

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



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

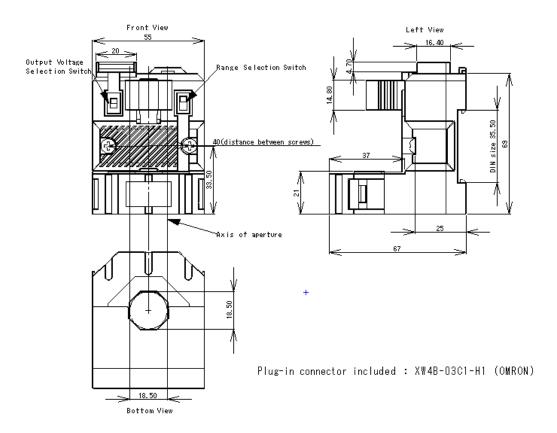
- Automation systems
 Analog current reading for remote monitoring (e.g. motor) and software alarms.
- Panelmeters
 Simple connection displays power consumption.

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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

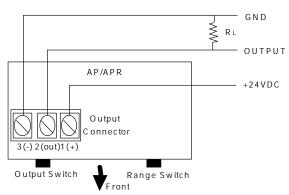
• Distance between holes 40.0 mm

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

Connections

ullet Wires up to 2 mm \varnothing

0-5, 10V Selectable



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