

AC Current transducer AP-B420L

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 4-20mA current output.





Preliminary

Electri	cal data			
Primary Nominal Current I _{PN} (A.t.RMS)		Analogue Output Signal I _{OUT} (mA)	Туре	
10,25,50		4-20	AP 50 B420L	
50,75,100		4-20	AP 100 B420L	
100,150,200		4-20	AP 200 E	3420L
200,300,400		4-20	AP 400 B420L	
R L Load resistance V Supply voltage (loop powered) V R.m.s. voltage for AC isolation test, 50/60Hz, 1 mn Limitation of output current		< 350 +24 5 < 25	Ω V DC kV mA	

	J		
X	Accuracy @ \mathbf{I}_{PN} , $\mathbf{T}_{A} = 25^{\circ}$ C (without offset)	< ±1	% of I _{PN}
e	Linearity (0 ± I _{PN})	$< \pm 0.5$	% of I _{PN}
I _{OE}	Electrical offset current, $T_{\Delta} = 25^{\circ}C$	4	mA
I	Thermal drift of I _{OF}	±1	μA/K
I _{OT} TC e _G	Thermal drift of the gain (% of reading)	±0.1	%/K
t, Č	Response time @ 90% of I _P	< 500	ms
f	Frequency bandwidth (-3 dB)	10600	0 Hz

Accuracy-Dynamic performance data

	General data						
т	Ambient operating temperature	-20 +60	°C				
T _s	Ambient storage temperature	-20 +85	°C				
m	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						

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

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



Features

- RMS output
- Split core type
- Loop powered 4-20mA current 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.

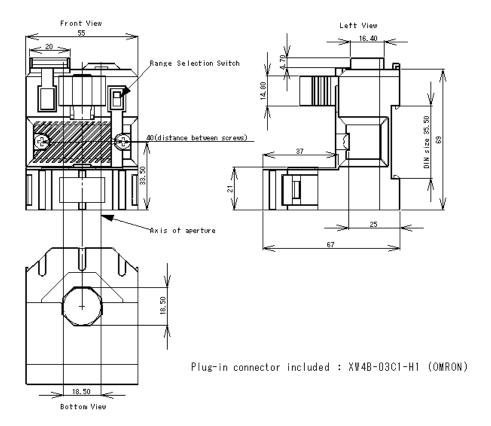
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Dimensions AP(R)-B420L

(unit: mm, 1mm = 0.0394 inch)



Mechanical characteristics

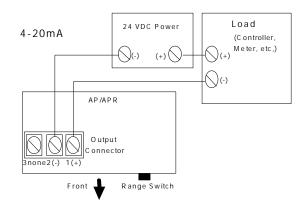
General tolerance ±1 mm
 Primary aperture Ø 18.5 mm
 Panel mounting 2 holes Ø 4.0 mm

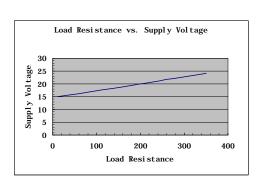
• Distance between holes 40.0 mm

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





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