## DC Current transducer DK-B5/10

A split core transducer for the electronic measurement DC current, with galvanic isolation between the primary (High power) and the secondary circuits (Electronic circuit) with voltage output.



Primary Nominal Current I <sub>PN</sub> (A.t)	Analogue Output Signal <sup>1)</sup> V <sub>OUT</sub> (V)	Туре
50,75,100	0-5	DK 100 B5
100,150,200	0-5	DK 200 B5
150,225,300	0-5	DK 300 B5
200,300,400	0-5	DK 400 B5
50,75,100	0-10	DK 100 B10
100,150,200	0-10	DK 200 B10
150,225,300	0-10	DK 300 B10
200,300,400	0-10	DK 400 B10
V <sub>c</sub> Supply voltage	22-26	V AC/ DC
R <sub>L</sub> Load resistance (max)	250	kΩ
V <sub>d</sub> Isolation voltage	3000	V AC
f Frequency	DC	
I <sub>c</sub> Current consumption (max	.) 100	mA

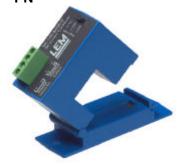
#### Accuracy - Dynamic performance data

Х	Accuracy @ I <sub>PN</sub> , T <sub>A</sub> =25°C	± 1	%
$\epsilon_{L}$	Linearity	$\pm 0.75$	%
t <sub>r</sub>	Response time $@$ 90% of I $_{_{PN}}$	< 300	mS

# General data $T_A$ Ambient operating temperature (0-95% RH)- 20 ... + 50°C $T_s$ Ambient storage temperature- 20 ... + 85°CmMass120g

<u>Note</u> : <sup>1)</sup> For 0-3 V output model, no saturation output up to 3.5 V for 0-5 V output model, no saturation output up to 5.75 V and for 0-10 V output model, no saturation output up to 11.5 V





#### Features

- DC Measurement
- Split core box
- Voltage output
- Jumper selectable ranges
- Panel mounting
- Extended measuring range

#### Advantages

- Large aperture
- High isolation between primary and secondary circuits
- Easy to mount
- No insertion losses

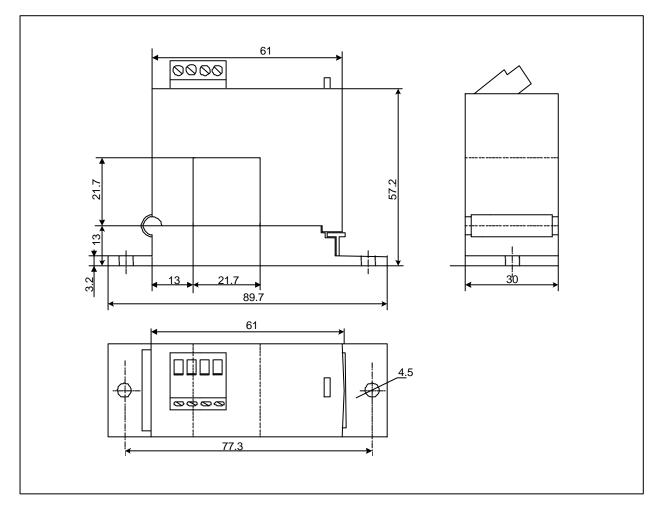
#### Applications

- Battery Banks
  - Monitors load current.
  - Monitors charging current.
  - Verifies operation.
- Transportation
  - Measures traction power or auxiliary loads.
- Electric Heating Elements Faster response than temperature sensors.

#### **Options on request**

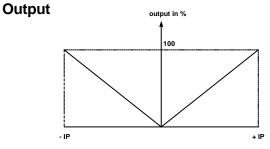
• DIN mounting

#### Dimensions DK-B5/10 (unit : mm, 1mm = 0.0394 inch)



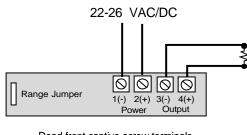
#### **Mechanical characteristics**

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



### Connections

• 2 x UNC8 Cylindric Head



Dead front captive screw terminals
 12-22AWG solid or stranded

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