

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.









$I_{PN} = 50..400 A$



Electrical data

Primary Nominal C	urrent Analogue O	Analogue Output Signal 1)		RoHs
$I_{PN}(A.t)$	V _{ou}	_{JT} (V)		Date Code
50,75,100	0-5	5	DK 100 B5	planned
100,150,200	0-5	5	DK 200 B5	planned
150,225,300	0-5	5	DK 300 B5	planned
200,300,400	O-5	5	DK 400 B5	planned
50,75,100	0-	10	DK 100 B10	MAY 2006
100,150,200	0-1	10	DK 200 B10	MAY 2006
150,225,300	0-1	10	DK 300 B10	planned
200,300,400	0-1	10	DK 400 B10	planned
V _c Supply volta	age		20-50	V DC
			22-38	V AC
R _L Load resista	ance		50 250	$k\Omega$
V _b Rated voltage	ge (CAT III, PD2)		150	V AC
V _d Isolation vol	tage		3000	V AC
f Frequency			DC	
I _c Current con	sumption (max)		100	mA

	Accuracy - Dynamic performance data				
X	Accuracy @ I _{PN} , T _A =25°C	± 1	%		
	DK 300 BXX	± 1.5	%		
	DK 400 BXX	±2	%		
$\epsilon_{_{\!L}}$	Linearity error	±0.75	%		
t_{r}	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	°C
m	Mass	120	g
	Protection type	IP 20	
	Safety	IEC 61010-1	
	EMC	EN 61326 ²⁾	

 $\underline{\text{Notes}}$: $^{1)}$ 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

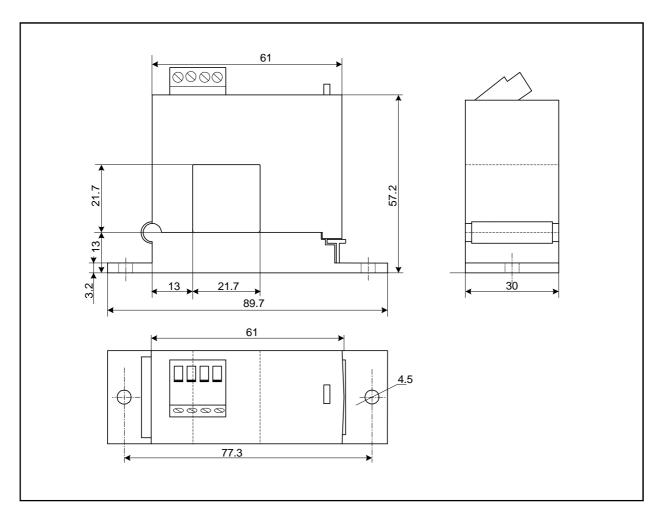
• DIN mounting.

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²⁾ For IEC 61000-4-3, IEC 61000-4-6 and IEC 61000-4-4 Criterion B: temporary impairment to operational behavior.



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



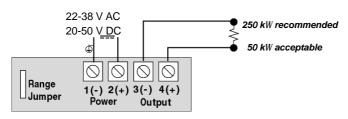
Mechanical characteristics

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

Distance between holes 77.3 mm

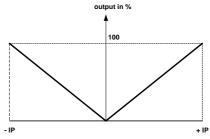
Connections

• 2 x UNC8 Cylindric Head



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

Output



Remark

• Temperature of the conductor should not exceed 60°C.