

DC Current transducer DK-B020/420

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 current output.



Electrical data

Primary N	Nominal Current	Analogue Output Sign	al ¹⁾	Types
•	, (A.t)	I _{OUT} (mA)	~ .	.) 00
	75,100	0-20		DK 100 B020
100,1	150,200	0-20		DK 200 B020
150,2	225,300	0-20		DK 300 B020
200,3	300,400	0-20		DK 400 B020
50,7	75,100	4-20		DK 100 B420
100,1	150,200	4-20		DK 200 B420
150,2	225,300	4-20		DK 300 B420
200,3	300,400	4-20		DK 400 B420
V _c Su	upply voltage	2	2-26	V AC/ DC
	ad resistance (max)	6	50	Ω
_	olation voltage	3	000	V
	equency		C	
I _c Cu	urrent consumption (max)	1	00	mA

	Accuracy - Dynamic performance	e data			
\mathbf{X} $\mathbf{\varepsilon}_{L}$ \mathbf{t}_{r}	Accuracy @ I_{PN} , T_A =25°C Linearity Response time @ 90% of I_{PN}	± 1	± 0.75 < 100	%	% mS
	General data				
T _A T _S m	Ambient operating temperature (0-95% Ambient storage temperature Mass	6 RH)	- 20 + 50 - 20 + 85 120		°C °C g

Options Bipolar output :

DK 100 B 420 B, DK 200 B 420 B, DK 300 B 420 B, DK 400 B 420 B

Note: 1) For 0-20 mA and 4-20 mA outputs models, no saturation outputs up to 23 mA.

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



Features

- DC Measurement
- Split core box
- Current 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

loads

- Monitors load current
- Monitors charging current
- Verifies operation
- Transportation

 Measures traction power or auxiliary
- Electric Heating Elements
 Faster response than temperature sensors.

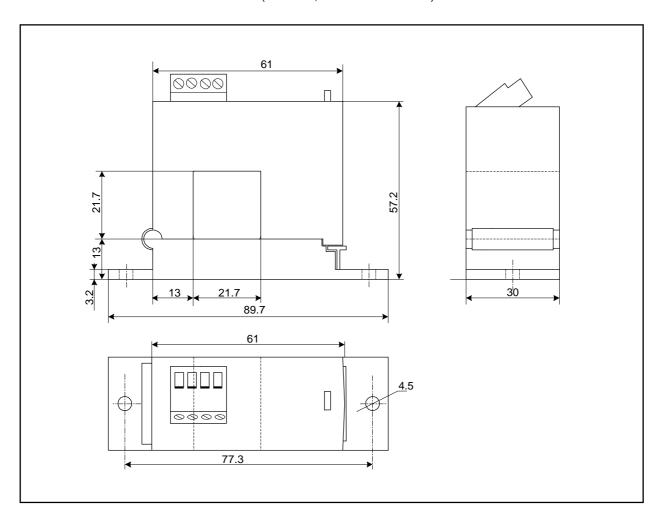
Options on request

- Bipolar output
- DIN mounting.

040510/6



Dimensions DK-B020/420 (unit : mm, 1 mm = 0.0394 inch)

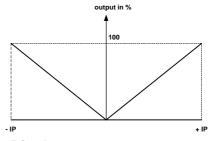


Mechanical characteristics

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

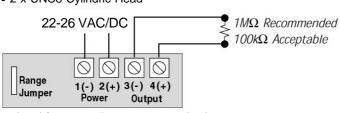
Distance between holes 77.3 mm

Standard output



Connections

• 2 x UNC8 Cylindric Head



- dead front captive screw terminals

- 12-22AWG solid or stranded

Bipolar output

