

Split core current transformer (KBR)

Features / Benefits

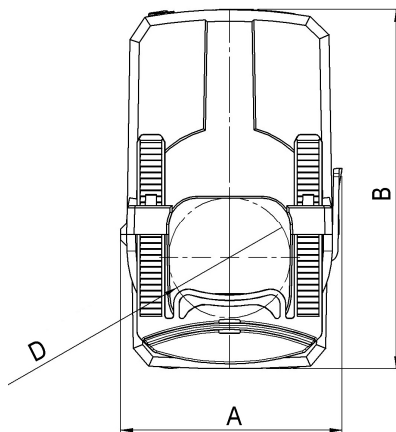
- Ideal for subsequent installation into existing systems
- The special "click" system enables a "one-handed" installation
- Available with secondary current of 5 A / 1 A, as current sensor (0...333 mV) or as transformer (4...20 mA DC)
- Three different designs

Technical details

- Length of connection lead:

sec. 1A:	2.5 m, cross-section 2 x 0.75 mm ²
sec. 5A:	0.5 m, cross-section 2 x 1.5 mm ²
0...333 mV:	2.5 m, cross-section 2 x 0.75 mm ²
4...20 mA:	2.5 m, cross-section 2 x 0.75 mm ²

 (different length on request)
- Working temperature range: -5°C < T < +50°C
- Storage temperature range: -25°C < T < +70°C
- Therm. nominal continuous current I_{cth} : 1.2 x I_N
- Therm. nominal short-time current I_{th} : 60 x I_N , 1 sec.
- Operating voltage U_m : 0.72 kV max.
- Insulation test voltage: 3 kV, U_{eff} , 50 Hz, 1 min.
- Nominal rated frequency: 50 Hz
- Insulation class: E
- Technical standards used: IEC 61869-1/2



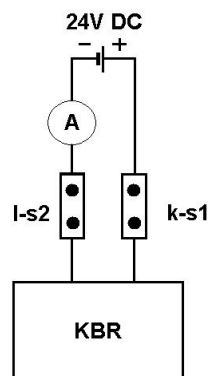
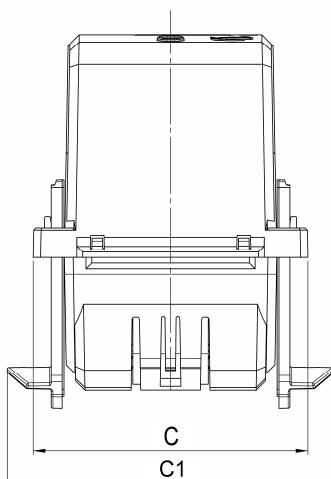
Dimensions

Type	A (width) [mm]	B (height) [mm]	C / C1 (depth) [mm]	D (diameter) [mm]
KBR 18	41.6	64.5	55 / 67.3	18.5
KBR 32	59.2	96.4	75 / 89.2	32.5
KBR 44	72.2	120.6	85 / 98.1	44

Technical characteristics of the KBR with output signal 4...20 mA:

- Two-strand wire technology, auxiliary voltage via output circuit
- Auxiliary power: 24 V DC \pm 15 %, P_V = max. 1 VA
- Impressed direct current: Live-zero, 4...20 mA
- External resistance: 300 Ω max.
- Current limitation in case of overload: < 30 mA
- Residual ripple: \leq 1 % p.p.
- Settling time: < 300 ms

Connection schematic of the KBR 32 (4...20 mA):



Availability table KBR 18

secondary current		5 A		1 A		output	0...333 mV AC	4...20 mA DC
primary current [A]	burden [VA]	accuracy class		accuracy class		primary current [A]	accuracy class	accuracy class
		3FS5	1FS5	3FS5	1FS5		1	1
		availability					availability	
50	1			X		50	X	
75	1			X		75	X	
100	1.25			X		100	X	
125	1.5			X		125	X	
150	2			X		150	X	
200	1				X	200	X	
	3			X				
250	1.5				X	250	X	
	4			X				

Availability table KBR 32

secondary current		5 A		1 A		output	0...333 mV AC	4...20 mA DC
primary current [A]	burden [VA]	accuracy class		accuracy class		primary current [A]	accuracy class	accuracy class
		3FS5	1FS5	3FS5	1FS5		1	1
		availability					availability	
100	1.5	X				100	X	X
	2.5			X				
125	2.5	X				125	X	X
	3			X				
150	3	X		X		150	X	X
200	3	X				200	X	X
	5			X				
250	3	X				250	X	X
	5			X				
300	2.5		X			300	X	X
	5				X			
400	5		X		X	400	X	X
500	5		X		X	500	X	X
600	5		X		X	600	X	X

Availability table KBR 44

secondary current		5A	1A	output	0...333 mV AC	4...20 mA DC
primary current [A]	burden [VA]	accuracy class	accuracy class	primary current [A]	accuracy class	accuracy class
		1FS5	1FS5		1	1
		availability			availability	
250	1.5	X		250	X	X
	2.5		X			
300	2.5	X	X	300	X	X
400	5	X	X	400	X	X
500	5	X	X	500	X	X
600	5	X	X	600	X	X
750	5	X	X	750	X	X
800	5	X	X	800	X	X
1000	5	X	X	1000	X	X