

# Split-Core Current Transformer

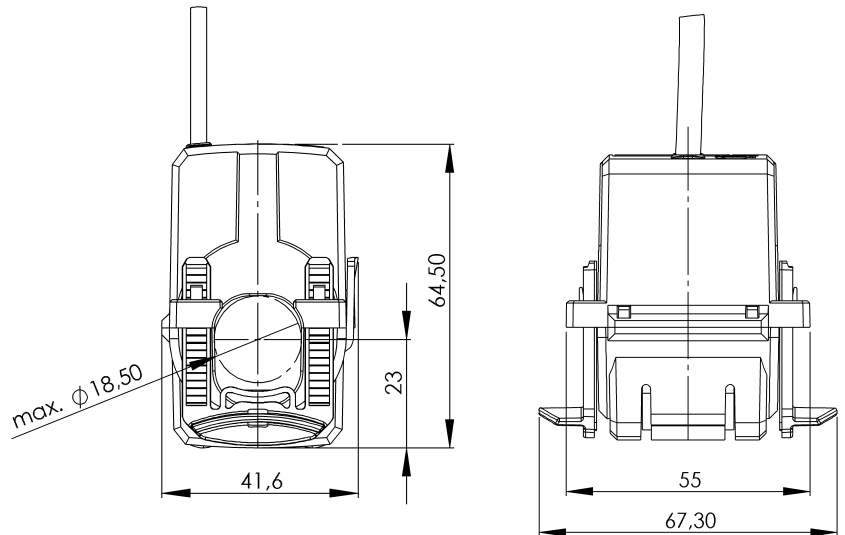
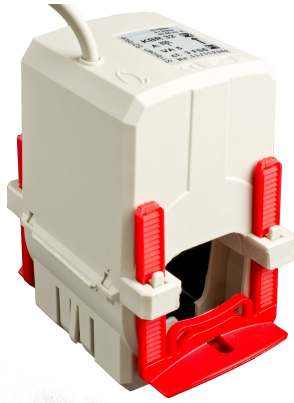


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## KBR 18

### Split-core current transformer



#### Dimensions:

Round conductor: 18 mm  
 Transformer width: 41.6 mm  
 Transformer height: 64.5 mm  
 Transformer depth incl. fixing clasps: 67.3 mm

#### General technical specifications:

Thermal nominal continuous rated current  $I_{cth}$ :  $1.2 \times I_N$   
 Thermal nominal short-time current  $I_{th}$ :  $60 \times I_N$ , 1 Sek.  
 Maximum operating voltage  $U_m$ : 0.72 kV  
 Isolation test voltage: 3 kV,  $U_{eff}$ , 50 Hz, 1 min.  
 Rated frequency: 50 Hz  
 Isolation class: E  
 Applicable technical standards: DIN EN 60044/1  
 VDE 0414 Teil 1

#### Further information about our new split-core current transformer KBR 18:

- Split-core current transformers are mainly used for an easy fitment into an already existing installation, without separating the primary conductor.
- The compact split-core current transformer KBR 18 is especially developed for an easy handling and especially for an installation in areas, which are difficult to access.
- Due to the „click“-system and the fixing-clasps even a one-hand mounting is possible.
- The delivery follows with 2.5 m connection cable  $2 \times 0.75 \text{ mm}^2$  (color coded; S1 = brown; S2 = blue). Other lengths of the connection cables are possible on request.
- For the use as a current sensor the KBR 18 is optionally deliverable with a voltage output of 0 – 333 mV (Min. burden resistance  $\geq 1 \text{ k}\Omega$ ).
- Operating temperature:  $-5^\circ\text{C} < T < +50^\circ\text{C}$
- Storage temperature:  $-25^\circ\text{C} < T < +70^\circ\text{C}$

## Order list

Output		1 A AC		0...333 mV AC	
Primary current [ A ]	Burden [ VA ]	Accuracy class		Primary current [ A ]	Accuracy class
		3FS5	1FS5		1
		Art.-no.	Art.-no.		Art.-no.
50	1	10018-0001		50	10018-1001
75	1	10018-0006		75	10018-1006
100	1.25	10018-0011		100	10018-1011
125	1.5	10018-0016		125	10018-1016
150	2	10018-0021		150	10018-1021
200	3	10018-0026		200	10018-1026
	1		10018-0027		
250	4	10018-0031		250	10018-1031
	1.5		10018-0032		

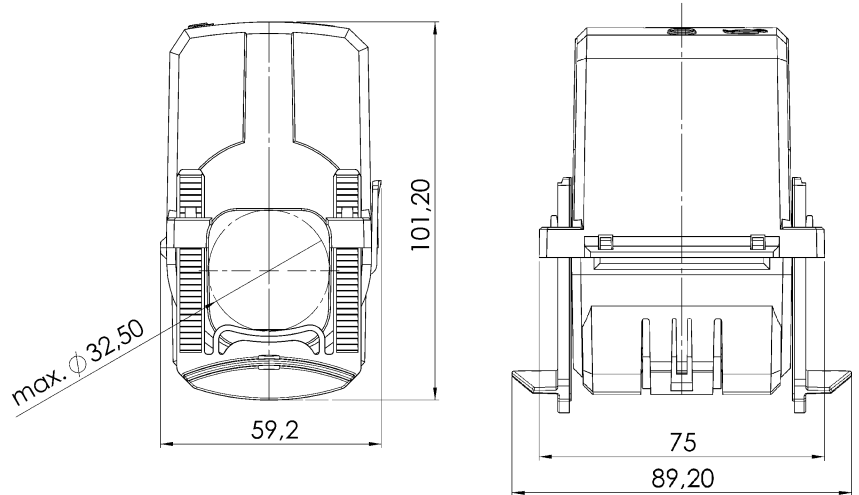
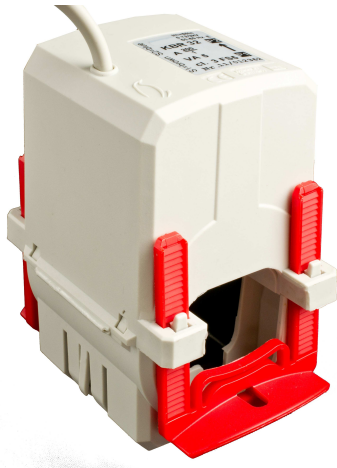
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Germany

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## KBR 32

### Split-core current transformer



#### Dimensions:

Round conductor: 32.5 mm  
 Transformer width: 59.2 mm  
 Transformer height: 96.4 mm  
 Transformer depth incl. fixing clasps: 89.2 mm

#### General technical specifications:

Thermal nominal continuous rated current  $I_{cth}$ :  $1.2 \times I_N$   
 Thermal nominal short-time current  $I_{th}$ :  $60 \times I_N$ , 1 Sek.  
 Maximum operating voltage  $U_m$ : 0.72 kV  
 Isolation test voltage: 3 kV,  $U_{eff}$ , 50 Hz, 1 min.  
 Rated frequency: 50 Hz  
 Isolation class: E  
 Applicable technical standards: DIN EN 60044/1  
 VDE 0414 Teil 1

#### Further information about our new split-core current transformer KBR 32:

- Split-core current transformers are mainly used for an easy fitment into an already existing installation, without separating the primary conductor.
- The compact split-core current transformer KBR 32 is especially developed for an easy handling and especially for an installation in areas, which are difficult to access.
- Due to the „click“-system and the fixing-clasps even a one-hand mounting is possible.
- The KBR 32 with secondary 1A will be delivered with 2.5 m connection cable  $2 \times 0.75 \text{ mm}^2$  (color coded; S1 = brown; S2 = blue). Other lengths of the connection cables are possible on request. The secondary 5A – version will be delivered with 0.5m connection cable  $2 \times 1.5 \text{ mm}^2$ .
- For the use as a current sensor the KBR 32 is optionally deliverable with a voltage output of 0 – 333 mV (min. burden resistance  $\geq 1 \text{ k}\Omega$ ).  
 Moreover the KBR 32 is deliverable as a measuring transducer with a measuring output of 4...20 mA DC.
- Operating temperature:  $-5^\circ\text{C} < T < +50^\circ\text{C}$
- Storage temperature:  $-25^\circ\text{C} < T < +70^\circ\text{C}$

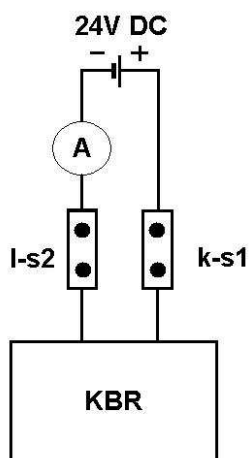
**Order list:**

Secondary current		5A		1A		Output signal	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
		Art.-no.	Art.-no.	Art.-no.	Art.-no.		Art.-no.	Art.-no.
100	1.5	10032-5011				100	10032-1011	10032-2011
	2.5			10032-0011				
125	2.5	10032-5016				125	10032-1016	10032-2016
	3			10032-0016				
150	3	10032-5021		10032-0021		150	10032-1021	10032-2021
200	3	10032-5026				200	10032-1026	10032-2026
	5			10032-0026				
250	3	10032-5031				250	10032-1031	10032-2031
	5			10032-0031				
300	2.5		10032-5035			300	10032-1034	10032-2034
	5				10032-0035			
400	5		10032-5037		10032-0037	400	10032-1036	10032-2036
500	5		10032-5039		10032-0039	500	10032-1038	10032-2038
600	5		10032-5041		10032-0041	600	10032-1040	10032-2040

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

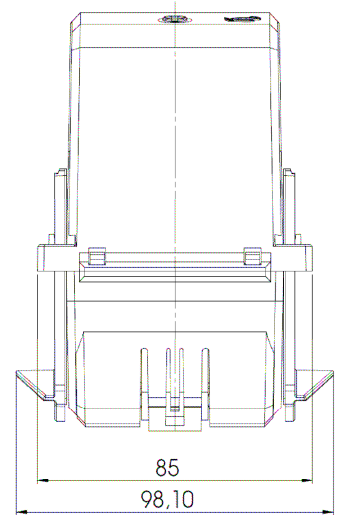
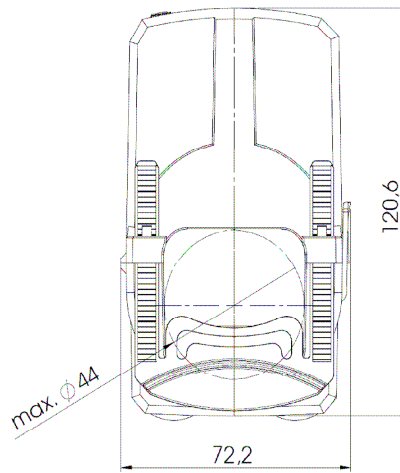
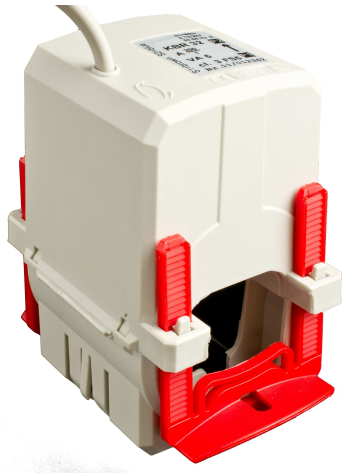
- 2-wire connection, auxiliary power via output circuit
- Auxiliary power: 24 V DC  $\pm$  15 %,  $P_V = \text{max. } 1 \text{ VA}$
- Load-independent DC current: Live-zero, 4...20 mA
- External resistance: max. 300  $\Omega$
- Current limit under overload: < 30 mA
- Residual ripple of the output current:  $\leq 1 \%$  p.p.
- Response time: < 300 ms

**Wiring diagram of the KBR 32 (4...20 mA):**



## KBR 44

### Split-core current transformer



#### Dimensions:

Round conductor: 44 mm  
 Transformer width: 72.2 mm  
 Transformer height: 120.6 mm  
 Transformer depth incl. fixing clasps: 98.1 mm

#### General technical specifications:

Thermal nominal continuous rated current  $I_{cth}$ :  $1.2 \times I_N$   
 Thermal nominal short-time current  $I_{th}$ :  $60 \times I_N$ , 1 Sek.  
 Maximum operating voltage  $U_m$ : 0.72 kV  
 Isolation test voltage: 3 kV,  $U_{eff}$ , 50 Hz, 1 min.  
 Rated frequency: 50 Hz  
 Isolation class: E  
 Applicable technical standards: DIN EN 60044/1  
 VDE 0414 Teil 1

#### Further information about our new split-core current transformer KBR 44:

- Split-core current transformers are mainly used for an easy fitment into an already existing installation, without separating the primary conductor.
- The compact split-core current transformer KBR 44 is especially developed for an easy handling and especially for an installation in areas, which are difficult to access.
- Due to the „click“-system and the fixing-clasps even a one-hand mounting is possible.
- The KBR 44 with secondary 1A will be delivered with 2.5 m connection cable  $2 \times 0.75 \text{ mm}^2$  (color coded; S1 = brown; S2 = blue). Other lengths of the connection cables are possible on request.  
The secondary 5A – version will be delivered with 0.5m connection cable  $2 \times 1.5 \text{ mm}^2$ .
- For the use as a current sensor the KBR 44 is optionally deliverable with a voltage output of 0 – 333 mV (min. burden resistance  $\geq 1 \text{ k}\Omega$ ).  
Moreover the KBR 44 is deliverable as a measuring transducer with a measuring output of 4...20 mA DC.
- Operating temperature:  $-5^\circ\text{C} < T < +50^\circ\text{C}$
- Storage temperature:  $-25^\circ\text{C} < T < +70^\circ\text{C}$

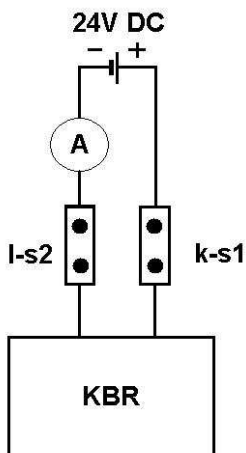
## Order list

Secondary current		5A	1A	Output signal	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
		Best.-Nr.	Best.-Nr.			Best.-Nr.
250	1.5	10044-5001		250	10044-1001	10044-2001
	2.5		10044-0001			
300	2.5	10044-5006	10044-0006	300	10044-1006	10044-2006
400	5	10044-5011	10044-0011	400	10044-1011	10044-2011
500	5	10044-5016	10044-0016	500	10044-1016	10044-2016
600	5	10044-5021	10044-0021	600	10044-1021	10044-2021
750	5	10044-5026	10044-0026	750	10044-1026	10044-2026
800	5	10044-5031	10044-0031	800	10044-1031	10044-2031
1000	5	10044-5036	10044-0036	1000	10044-1036	10044-2036

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







- 2-wire connection, auxiliary power via output circuit
- Auxiliary power: 24 V DC  $\pm$  15 %,  $P_V = \text{max. } 1 \text{ VA}$
- Load-independent DC current: Live-zero, 4...20 mA
- External resistance: max. 300  $\Omega$
- Current limit under overload: < 30 mA
- Residual ripple of the output current:  $\leq 1 \%$  p.p.
- Response time: < 300 ms

### Wiring diagram of the KBR 44 (4...20 mA):





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