

General description

Counters with 4, 5, 6 or 7 digits for flush-, base or PCB-mount. Versions suitable for direct soldering on PCB-boards and wash proof. High degree of resistance against shock and vibrations. Power consumption 30 mW. Most suitable for battery operation and electrical circuits. Long service life. Large operating temperature range. The flush mount models K 04.20, K 05.20, K 06.20 and K 07.20 are inserted into the panel opening and a selfacting clamp holds the

counter in its position. Certain PCB-mount counters have a steel metal housing with anti-magnetic features. Counters with magnifying glass magnify the figures to a height of 4 mm. This complies with the actual DIN standards for caloric measuring in central heating systems.

Applications:

General counting systems, caloric and water consumption measuring, all kinds of coin-operated machines, use in vehicles.

Mounting position: optional

Ambient temperature:
– 10° to + 60° C

Weights:
counter including housing: 15 – 18 g
Service life: > 50 · 10⁶ counts

Housing:
flush-mount models: clear plastic
base-mount models: clear plastic
PCB-mount models: steel sheet black
clear plastic

Protection:
K 07.90 and K 07.91,
K 04.92, K 05.92 and K 07.92
IP 65 to DIN 40050
K 04.20, K 05.20, K 07.20
IP 57 front side other types according to mounting position

Solderable and wash-proof versions:
K 07.90 and K 07.91,
K 04.92, K 05.92 and K 07.92

Counter types K 04.20, K 05.20, K 07.20 are also available with flat pins 0.5 x 2.8 mm and push-on connectors.

Art.-No. 1.1X7.XX0.XXX
Extended temperature range:
– 30° ... + 85° C

Type series:

4 digits	5 digits	6 digits	7 digits	Housing	Height	Display	Type of mount
K 04.20	K 05.20	K 06.20	K 07.20	Plastic	4 mm	Small side	Flush mount
K 04.40	K 05.40	K 06.40	K 07.40	Steel	4 mm	Large side	PCB-mount
K 04.50	K 05.50	K 06.50	K 07.50	Steel	4 mm	Small side	PCB-mount
K 04.80	K 05.80	K 06.80	K 07.80	Plastic	4 mm	Small side	PCB-mount
AK 04.00	AK 05.00	AK 06.00	AK 07.00	Plastic	4 mm	Small side	Base mount
		K 06.90	K 07.90	Plastic	4 mm	Large side	PCB-mount wash proof
K 04.92	K 05.92	K 06.92	K 07.92	Plastic	4 mm	Small side	PCB-mount wash proof

Technical data:

Electrical connection on:
flush- and base mount counters:
flying leads appr. 150 mm long
PCB-mount counters:
silver plated soldering lugs 0.4 x 1.2 mm

Colour of figures: white on black

Size of figures:
K 04, K 06: 1,7 x 4 mm optical
K 05, K 07: 1,2 x 4 mm optical

Power consumption:
model 0 (10 imp/s) = 50 mW
model I (25 imp/s) appr. 250 mW
model a0 (10 imp/s) appr. 0,8 VA (220 VAC)

Impulse ratio: 1 : 1

Battery operation on model 0:
please note that power consumption of 30 mW must be maintained even on increase of temperature and discharge of battery.

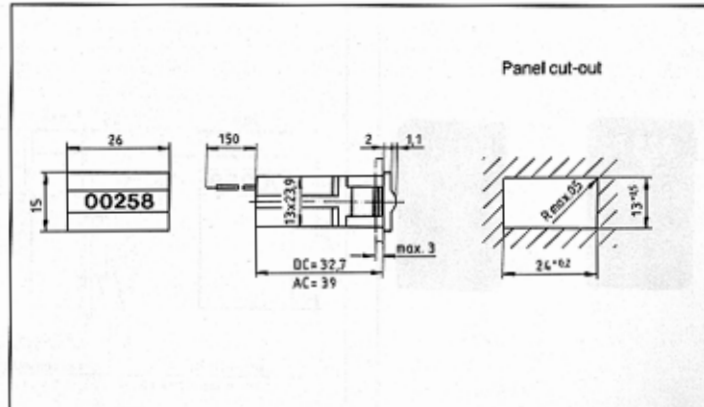
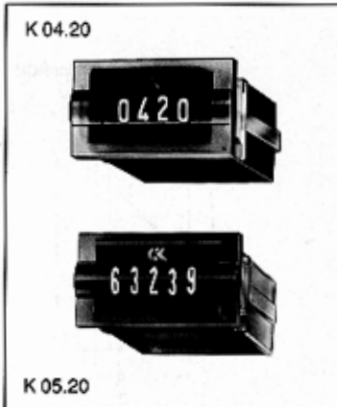
Rated voltages:
model 0: 1; 1,5; 3; 4,5; 6; 9; 12 VDC (up to 10 imp/s battery operat.)
model I: 4; 6; 12; 24 VDC ± 10% (25 imp/s)
model a0: 12; 24; 110; 220 VAC ± 10% (10 imp/s)

Percentage duty cycle: 100%

Residual ripple:
model 0: 5% max.
model I: 48% max.

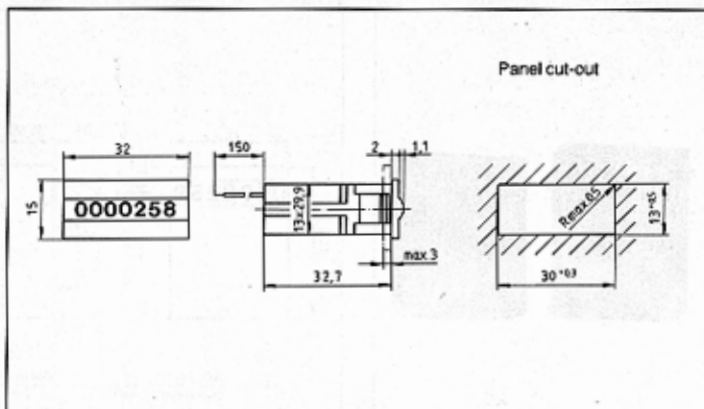
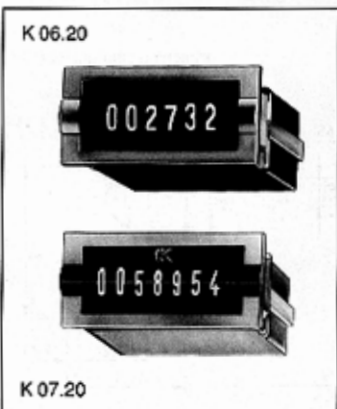
Order information:

Art.-No.
If special voltages are requested indicate counter type, voltage and model e. g. K 07.20, 9 VDC, model I



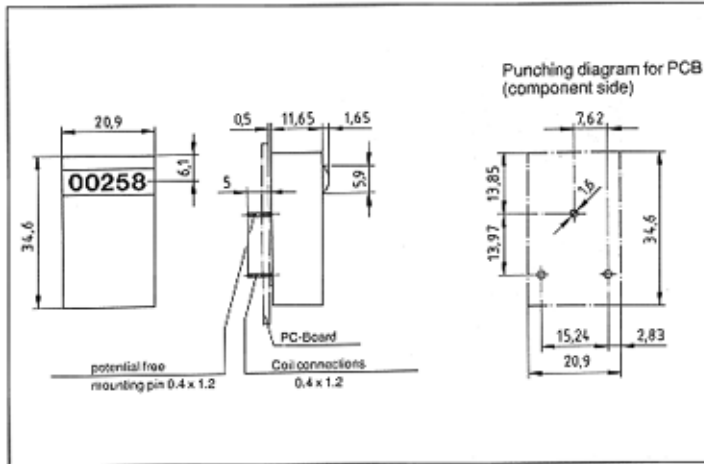
K 04.20 4-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.	110 V Art.-No.	220 V Art.-No.
DC (10 Imp/s)	1.100.200.006	1.100.200.008	1.100.200.012	1.100.200.013		
DC (25 Imp/s)			1.100.200.032	1.100.200.033		
AC (10 Imp/s)				1.100.200.051	1.100.200.054	1.100.200.056

K 05.20 5-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.	110 V Art.-No.	220 V Art.-No.
DC (10 Imp/s)	1.110.200.006	1.110.200.008	1.110.200.012	1.110.200.013		
DC (25 Imp/s)			1.110.200.032	1.110.200.033		
AC (10 Imp/s)				1.110.200.051	1.110.200.054	1.110.200.056



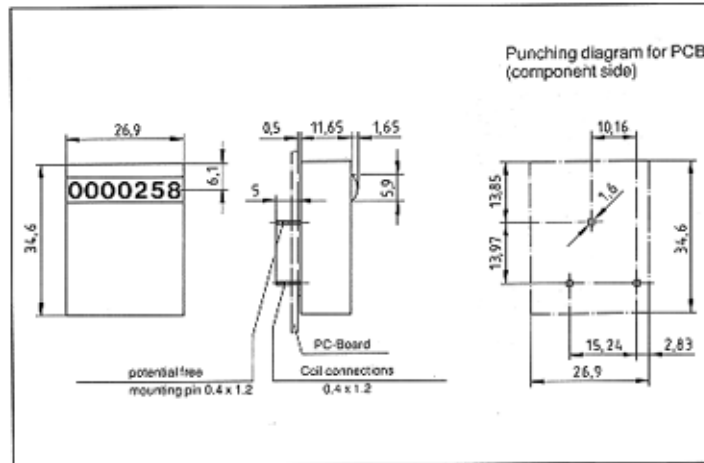
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DC (10 Imp/s)	1.120.200.006	1.120.200.008	1.120.200.012	1.120.200.013		
DC (25 Imp/s)			1.120.200.032	1.120.200.033		
AC (10 Imp/s)				1.120.200.051	1.120.200.054	1.120.200.056

K 07.20 7-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.	110 V Art.-No.	220 V Art.-No.
DC (10 Imp/s)	1.130.200.006	1.130.200.008	1.130.200.012	1.130.200.013		
DC (25 Imp/s)			1.130.200.032	1.130.200.033		
AC (10 Imp/s)				1.130.200.051	1.130.200.054	1.130.200.056



K 04.40 4-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.100.401.006	1.100.401.008	1.100.401.012	1.100.401.013
DC (25 Imp/s)			1.100.401.032	1.100.401.033

K 05.40 5-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.110.401.006	1.110.401.008	1.110.401.012	1.110.401.013
DC (25 Imp/s)			1.110.401.032	1.110.401.033



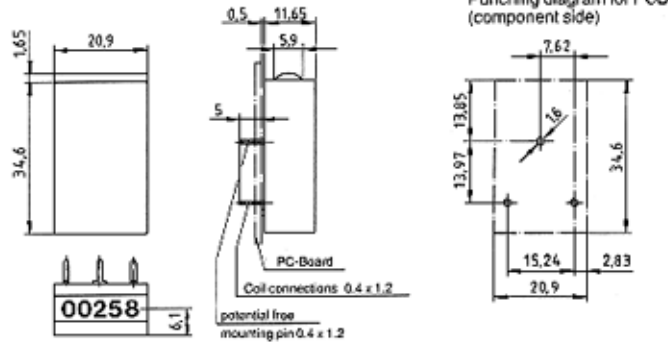
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DC (10 Imp/s)	1.120.401.006	1.120.401.008	1.120.401.012	1.120.401.013
DC (25 Imp/s)			1.120.401.032	1.120.401.033

K 07.40 7-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.130.401.006	1.130.401.008	1.130.401.012	1.130.401.013
DC (25 Imp/s)			1.130.401.032	1.130.401.033

K 04.50



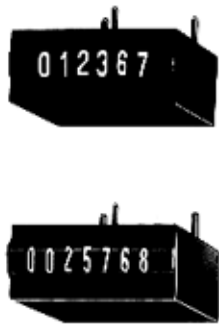
K 05.50



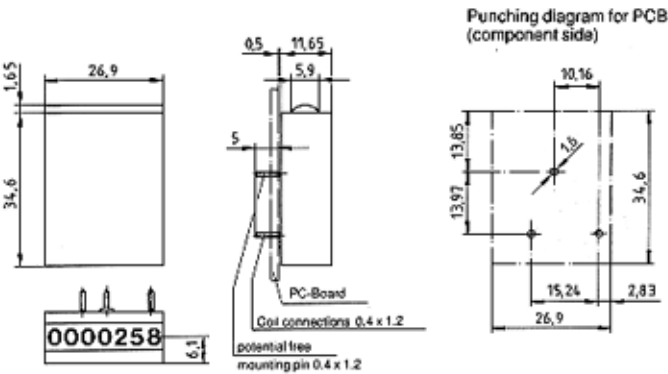
K 04.50 4-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.100.501.006	1.100.501.008	1.100.501.012	1.100.501.013
DC (25 Imp/s)			1.100.501.032	1.100.501.033

K 05.50 5-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.110.501.006	1.110.501.008	1.110.501.012	1.110.501.013
DC (25 Imp/s)			1.110.501.032	1.110.501.033

K 06.50

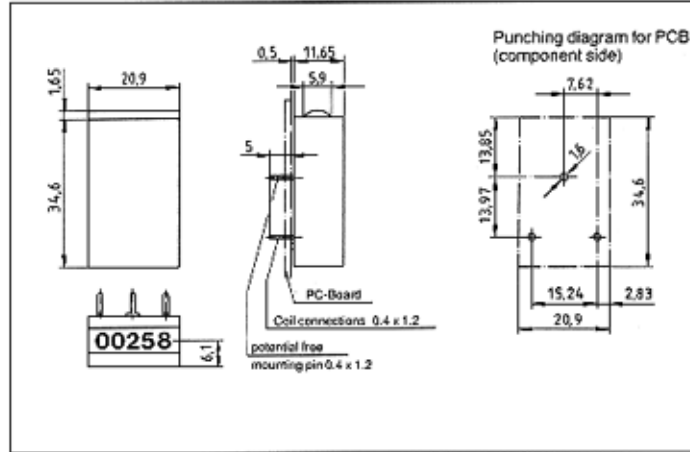
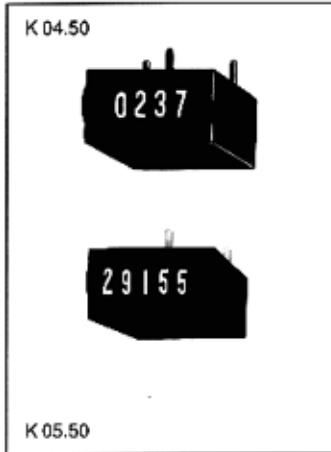


K 07.50



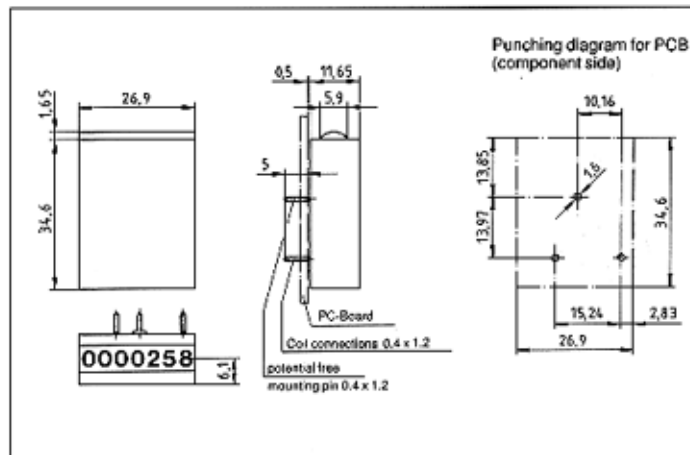
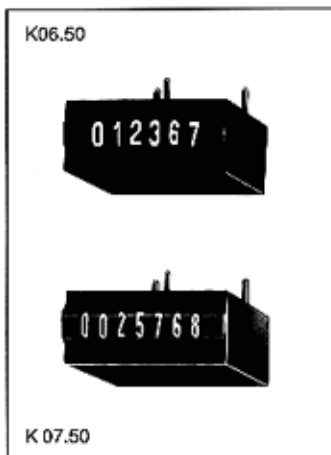
K 06.50 6-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.120.501.006	1.120.501.008	1.120.501.012	1.120.501.013
DC (25 Imp/s)			1.120.501.032	1.120.501.033

K 07.50 7-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.130.501.006	1.130.501.008	1.130.501.012	1.130.501.013
DC (25 Imp/s)			1.130.501.032	1.130.501.033



K 04.50 4-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.100.501.006	1.100.501.008	1.100.501.012	1.100.501.013
DC (25 Imp/s)			1.100.501.032	1.100.501.033

K 05.50 5-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.110.501.006	1.110.501.008	1.110.501.012	1.110.501.013
DC (25 Imp/s)			1.110.501.032	1.110.501.033



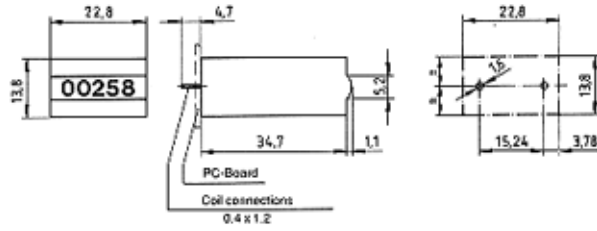
K 06.50 6-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.120.501.006	1.120.501.008	1.120.501.012	1.120.501.013
DC (25 Imp/s)			1.120.501.032	1.120.501.033

K 07.50 7-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.130.501.006	1.130.501.008	1.130.501.012	1.130.501.013
DC (25 Imp/s)			1.130.501.032	1.130.501.033

K 04.80



K 05.80

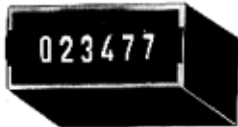


Punching diagram for PCB
(component side)

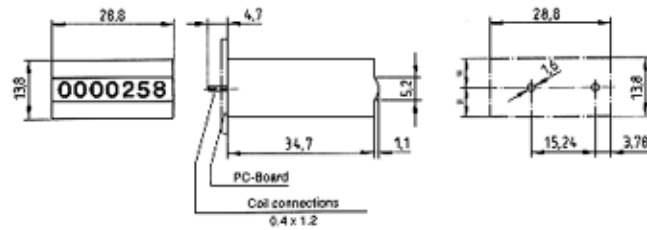
K 04.80 4-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.100.800.006	1.100.800.008	1.100.800.012	1.100.800.013
DC (25 Imp/s)			1.100.800.032	1.100.800.033

K 05.80 5-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.110.800.006	1.110.800.008	1.110.800.012	1.110.800.013
DC (25 Imp/s)			1.110.800.032	1.110.800.033

K 06.80



K 07.80



Punching diagram for PCB
(component side)

K 06.80 6-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.	110 V Art.-No.	220 V Art.-No.
DC (10 Imp/s)	1.120.800.006	1.120.800.008	1.120.800.012	1.120.800.013		
DC (25 Imp/s)			1.120.800.032	1.120.800.033		
AC (10 Imp/s)				1.120.800.051	1.120.800.054	1.120.800.056

K 07.80 7-digit	3 V Art.-No.	4,5 V Art.-No.	12 V Art.-No.	24 V Art.-No.	110 V Art.-No.	220 V Art.-No.
DC (10 Imp/s)	1.130.800.006	1.130.800.008	1.130.800.012	1.130.800.013		
DC (25 Imp/s)			1.130.800.032	1.130.800.033		
AC (10 Imp/s)				1.130.800.051	1.130.800.054	1.130.800.056