

Micro counters

High shock resistance (DC)

K46 / K47



The micro adding counters K46 and K47 boast a very high level of shock resistance. As panel mount and PCB mount counters they can be used in a wide variety of applications.

The counters are non-resettable and are highly tamper-proof thanks to their sealed (potted) housings.

Characteristics

- 6-digit (K46) or 7-digit (K47) micro adding counters.
- · Economical.
- Low power consumption; suitable for battery operation.
- Small dimensions, large optical figures.
- Different viewing possibilities.
- Panel mount with spring clips or PCB mount versions.

Benefits

- · Machine solderable and washable.
- High shock resistance.
- · Long service life.
- IP65 protection.
- · Stores values if power fails.

Applications

General quantity counting, alarm systems, coin-operated machines, electricity meters, vending and slot machines, photocopiers, medical equipment, car washes

Тур	e series					
Fig.	Mounting options	Display	el. connection	IP protection	6 digits	7 digits
1)	Panel mount with latch	front side	flying leads	front side	K46.20	K47.20
2)	PCB mount, upright	front side	solder pins	front side/on rear	K46.80	K47.80
3)	PCB mount, lying	on the top	solder pins	front side/on rear	-	K47.90
4)	PCB mount, hanging	front side	solder pins	front side/on rear	-	K47.91
5)	PCB mount, lying	front side	solder pins	front side/on rear	K46.95	-
1) Pa	unting options and position of anel mount splay front side		3) PCB mount, lying display on the to	•		
	PCB mount, hanging 5) PCB mount, lying display front side display front side				Optional: PCB mo display a	unt, lying at the bottom
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Technical data		
Electrical connection	panel mout	flying leads, AWG 22
		approx. 150 mm [5.91"],
		6 mm [0.24"] stripped wire ends, tinned
	PCB mount	solder pins ø 0.64 mm [0.025"]
Power consumption	up to 12 V DC	approx. 70 mW
	at 24 V DC	approx. 150 mW
Rated voltage		1.5 / 3 / 4.5 / 5 / 6 / 12 / 24 V DC, -10 % / +20 %
Counting frequency		max. 10 Hz (type 0)
Pulse duration / pulse int	erval	min. 50 ms / min. 50 ms
Cycle duration factor		100 %
Number of digits		6 (K46), 7 (K47)
Counting system		adding
Height of figures (optical)	K46	4 x 1.7 mm [0.16 x 0.067"]
	K47	4 x 1.25 mm [0.16 x 0.049"]
Color of figures		white on black
Reset		no reset
Operating temperature		-10 °C +60 °C [+14 °F +140 °F]
		(non-condensing)
Mounting position		horizontal, other on request
Operating life		> 50 x 10 ⁶ pulses
Soldering temperature		max. 265 °C [+509 °F], 3 s
Protection		IP65 (K46.20, K47.20: only front side)
Housing		PC (Polycarbonate)
Weight		12 14 g [0.420.49 oz]

Options	
K46.20, K46.80, K47.20, K47.80	flat pin 0.8 x 2.8 mm [0.032 x 0.11"] and push on connectors
K46.20, K47.20	solder pins ø 0.64 mm [0.025"]
Further options	- different voltages - counting frequency > 10 Hz - differend color of figures - extended temperature range: -30 °C +85 °C [-22 °F +185 °F] or -20 °C +70 °C [-4 °F +158 °F]

Approvals								
UL compliant in accordance with	File no. E128604							
CE compliant in accordance with								
EMC Directive	2014/30/EU							
RoHS Directive	2011/65/EU							
Low Voltage Directive	2014/35/EU							
UKCA compliant in accordance with								
EMC Regulations	S.I. 2016/1091							
RoHS Regulations	S.I. 2012/3032							
Low Voltage Regulations	S.I. 2016/1101							



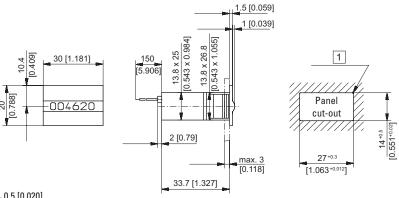
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Panel mount display front side Type K46.20 / K47.20



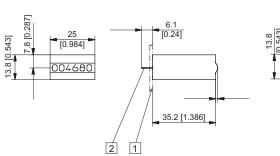


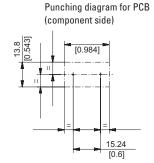
1 R_{max} 0.5 [0.020]

			Art. no.	Art. no.					
Туре	Voltage	Display	3 V	4.5 V	5 V	6 V	12 V	24 V	
K46.20	DC (10 Hz) / 0	6 digits	on request	on request	on request	on request	1.700.200.012 ¹⁾	1.700.200.013 ¹⁾	
K47.20	DC (10 Hz) / 0	7 digits	1.710.200.006	1.710.200.008	1.710.200.009	1.710.200.010	1.710.200.012 ¹⁾	1.710.200.013 ¹⁾	

PCB mount, upright display front side Type K46.80 / K47.80







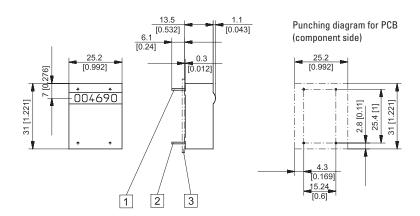
1 PCB 2 Coil connections ø 0.64 [0.025]

			Art. no.	Art. no.						
Туре	Voltage	Display	3 V	4.5 V	5 V	6 V	12 V	24 V		
K46.80	DC (10 Hz) / 0	6 digits	on request	on request	on request	on request	1.700.800.012	1.700.800.013 ¹⁾		
K47.80	DC (10 Hz) / 0	7 digits	1.710.800.006	1.710.800.008	1.710.800.009	1.710.800.010	1.710.800.012	1.710.800.013		

PCB mount, lying display front side Type K47.90



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 $\boxed{1} \ \text{Mounting pin without el. function } \emptyset \ 0.64 \ [0.025] \qquad \boxed{2} \ \text{Coil connections } \emptyset \ 0.64 \ [0.025] \qquad \boxed{3} \ \text{PCB}$

			Art. no.						
Туре	Voltage	Display	3 V	4.5 V	5 V	6 V	12 V	24 V	
K47.90	DC (10 Hz) / 0	7 digits	1.710.900.006	1.710.900.008	1.710.900.009	1.710.900.010	1.710.900.012	1.710.900.013	



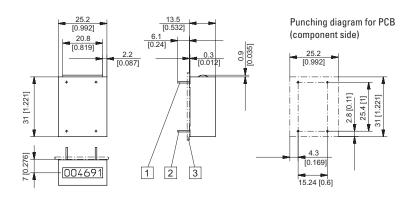
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PCB mount, hanging display front side Type K47.91



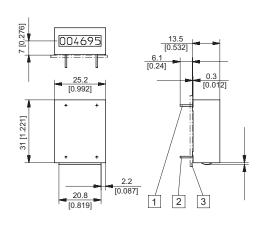


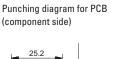
1 Mounting pin without el. function ø 0.64 [0.025] 2 Coil connections ø 0.64 [0.025] 3 PCB

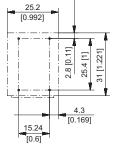
			Art. no.						
Туре	Voltage	Display	3 V	4.5 V	5 V	6 V	12 V	24 V	
K47.91	DC (10 Hz) / 0	7 digits	1.710.910.006	1.710.910.008	1.710.910.009	1.710.910.010	1.710.910.012	1.710.910.013	

PCB mount, lying display front side Type K46.95









1 Mounting pin without el. function ø 0.64 [0.025] 2 Coil connections ø 0.64 [0.025] 3 PCB

			Art. no.	Art. no.						
Туре	Voltage	Display	3 V	4.5 V	5 V	6 V	12 V	24 V		
K46.95	DC (10 Hz) / 0	6 digits	on request	on request	1.700.950.009	on request	1.700.950.012	1.700.950.013		