

The ORIGINAL – because Quality Counts



- Tailor-made for energy meters
- Versatile
- Highest reliability at an attractive price
- RoHS compliant 
- 5 years warranty 

■■■ pulses for automation



For more than 45 years thousands of customers have put their trust in the Kübler name. Kübler encoders, linear measuring systems, count and process technology are synonymous with innovation, flexibility and quality in over 50 countries worldwide.

Kübler products find their application in the fields of automation and instrumentation for detecting movement and for counting, displaying or controlling physical values.

Key areas include:

Geared motors, medical technology, lifts and elevators, energy measurement, packaging machinery, steel, wind power, woodworking and other industrial sectors.

Our repertoire includes some quite exceptional projects, such as the New York City subway, which we equipped completely with our encoders.

When you work together with Kübler, then you can expect to find more when it comes to innovation, flexibility and quality, than perhaps you are accustomed to.

- Each year we invest more than 10% of our turnover in R&D. Together with the close cooperation we have with our customers, this has led to pioneering innovations and solutions that we can manufacture for you both quickly and flexibly.
- We are in a position to develop special solutions for you - fast.
- As a rule our delivery reliability is better than 96% and, if required, we can manufacture the product you need within one or two days.

Together with our committed employees – over 180 in number – we look forward to working with you.



Gebhard Kübler



Lothar Kübler

Joint Managing Directors

Our Core Competences:



Encoders, Linear Measuring Systems + Connection Technology

Our portfolio stretches from miniature incremental encoders, via singleturn and multturn encoders up to ATEX and Heavy Duty products, as well as linear magnetic measuring and draw wire systems. All popular interfaces and fieldbuses are available. Our patented Integrative Technology, Intelligent Sensing Technology as well as Safety Lock™ Design and OptoASIC technology are setting new standards for reliability and performance.

Counting Technology

Our electromechanical counters and miniature counters for PCB mounting are the ideal time and pulse counters for pumps, lifts/elevators, dryers, UV lamps, kWh meters and much more. Our Codix series offers functional, inexpensive electronic display counters, position indicators, timers and rate indicators. Our electronic preset counters facilitate distributed control and help reduce cycle times.

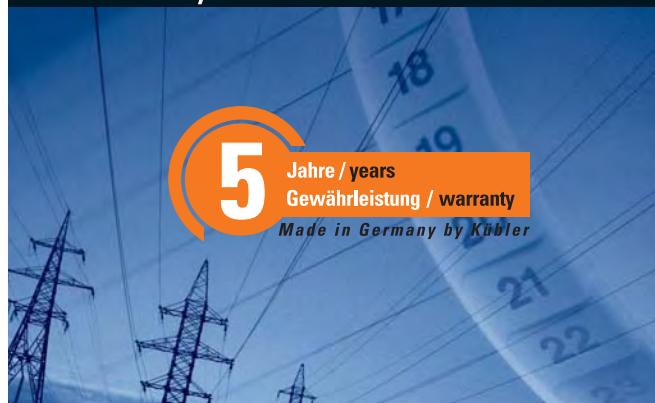
Process Technology

Our user-friendly, compact and well thought-out Codix process displays and controllers are suitable for all linear and non-linear analogue signals. Our temperature displays and controllers lend themselves to mounting either in a panel or on a DIN-rail.

OEM Products and Systems (OPS)

So that you can concentrate on your own core competence, we are able to offer you a number of services: fabricating and populating of printed circuit boards and sub-assemblies, planning of complete systems and integration solutions as well as the development and contract manufacturing of special purpose devices. Here we benefit from our long experience in the areas of precision mechanics, optics and electronic engineering.

Because Quality counts



The Fritz Kübler GmbH, market leader in the manufacture of counters for energy metering, now offers a 5 year warranty on all of its electromechanical devices that are built into kWh meters.

- Kübler has over 40 years experience in counter production.
- Many patents ensure high technical reliability and quality
- A wide variety of both standard and customised versions offer attractive-cost solutions for incorporation into kWh meters.
- The 5 year warranty programme satisfies the customer need for reliability with lower costs

Counters for energy metering technology from the market leader



Reliable:

robust and resistant to magnetic fields, PTB tested, high temperature range from -40 to +90° C, used by all leading energy metering manufacturers.



Shock/
vibration
resistant



Magnetic
field
proof



Tempera-
ture
-40° +90°

Simple:

direct control, universal use thanks to a wide variety of models, customer-specific connection technology or sub-assembling to reduce your production costs.

Compact and economic:

from 24 x 14 mm, can be mounted close together as double tariff meters, low power consumption.

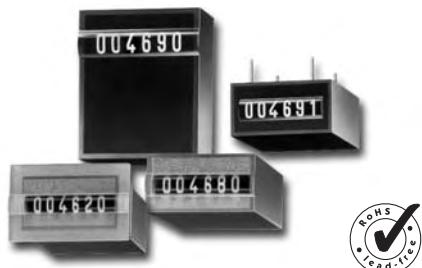
The Kübler Group – a global presence



Enthusiasming service and customer proximity

- active in more than 50 countries
- Quality engineered and produced in Germany
- Integrated Components. Off-the-shelf Systems
- Family owned, independent

Micro Display counter K 46/K 47 shock resistant



- high shock resistance
- low power consumption
- different mounting solutions
- PCB-mount versions
- stores value also at power failure
- long service life (50 x 106 impulses)

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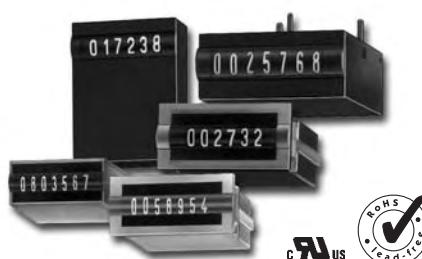
Micro Display counter K 66, K 67 shock- and magnetic field resistant



- not affected by magnetic fields as moving parts are made from non-ferrous metal (patented system).
- maximum shock resistance, as a counter-rotating movement is required for counting, ACR-system (patented).
- PCB-mount versions
- Solderable and wash proof
- Long service life

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Micro Display counter K 04 ... K 07, shock resistant



- High shock resistance
- Low power consumption; suitable for battery consumption
- PCB-mount versions
- Solderable and wash proof
- long service life
- cULus approval on request (UL Underwriters Laboratories Inc.)

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Stepper motor driven counter (Cyclometer)



- Large figures 5 x 3 mm [0.197 x 0.118"]
 - Stepper motor driven
 - Only 25 mW power consumption
- One impulse increases the first number wheel by 1/100 => 100 pulses generates one turn of the first number wheel

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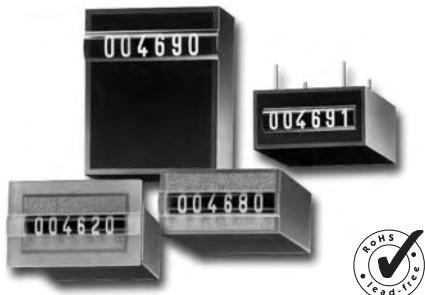
LCD Counter Module 190/192



- Counting frequency up to 10 kHz
- 7-digit display, height 6 mm [0.236"]
- Non-volatile memory (no battery, EEPROM)
- Low operating current
- Wide operating voltage and temperature range
- Very high shock and vibration specs

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Micro Display counter K 46/K 47 shock resistant



- 6/7-digit micro adding counter
- low cost
- **high shock resistance**
- low power consumption; suitable for battery operation
- small dimensions
- magnified large figures
- different mounting solutions
- flush mount with integrated spring clip (snap in)
- PCB-mount versions
- solderable and wash proof
- protection to IP 66
- stores value also at power failure
- long service life (50×10^6 impulses)



* on all electromechanical devices that are built into kWh meters

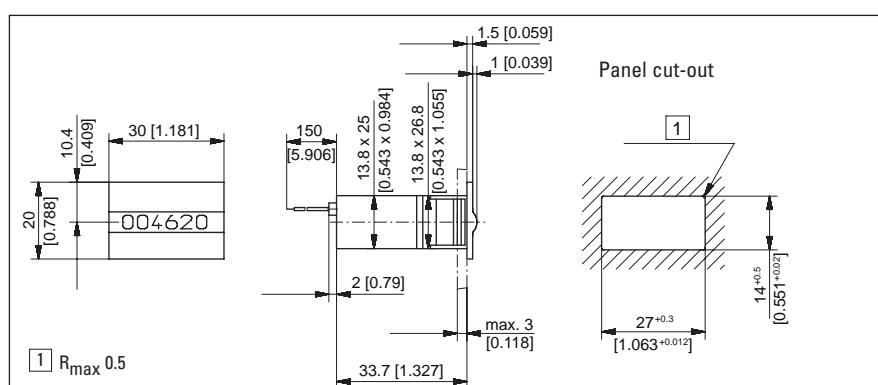
Technical data:

Electrical Connection:	flush mount: flying leads AWG 22 approx. 150 mm [5.906"]	Mounting position:	any
	PCB mount: solder pins ø 0.64 mm [0.025"]	Operating life:	> 50×10^6 impulses
Power consumption:	up to 12 V DC: approx. 70 mW at 24 V DC: approx. 150 mW	solderable and wash:	K 46.80, K 46.90, K 46.91, K 46.94, K 46.95
Rated voltage:	1.5/3/4/5/6/12/24 V DC –10 % +20 %	proof types:	K 47.80, K 47.90, K 47.91
Counting frequency:	max. 10 Imp/s (type 0)	Protection:	IP 65 (K 46.20, K 47.20: on front side)
Pulse duration:	min. 50 ms	Housing:	clear plastic
Pulse interval:	min. 50 ms	Weight:	12 ... 14 g
Cycle duration factor:	100 %	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 types with spacer (high 6 mm [0.236"])
Number of digits:	6 (K46), 7 (K47)	K 46.9x ... 71:	Draw. 1
Counting system:	adding	K 47.9x ... 71:	further options: – different voltages – counting frequency > 10 Imp/s – different colour of figures – extended temperature range: -30 ... +85 °C or -20 ... +70 °C [-22 °F ... 185 °F or -4 °F... 158 °F]
Height of figures:	K 46: 4 x 1.7 mm [0.067"] K 47: 4 x 1.25 mm [0.049"] optical		
Colour of figures:	white on black		
Reset:	no reset		
Ambient temperature:	-10 ... +60 °C [14 °F ... 140 °F]		

Series:

Type	Display	el. Connection	Description
K46.20, K47.20	Small side	Flying leads	Panel mount with latch
K46.80, K47.80	Small side	Solder pins	PCB mount wash proof
K46.90, K47.90	Large side	Solder pins	PCB mount wash proof
K46.91, K47.91	Small side	Solder pins	PCB mount wash proof
K46.94	Large side	Solder pins	PCB mount wash proof
K46.95	Small side	Solder pins	PCB mount wash proof

Type K 46.20/K47.20

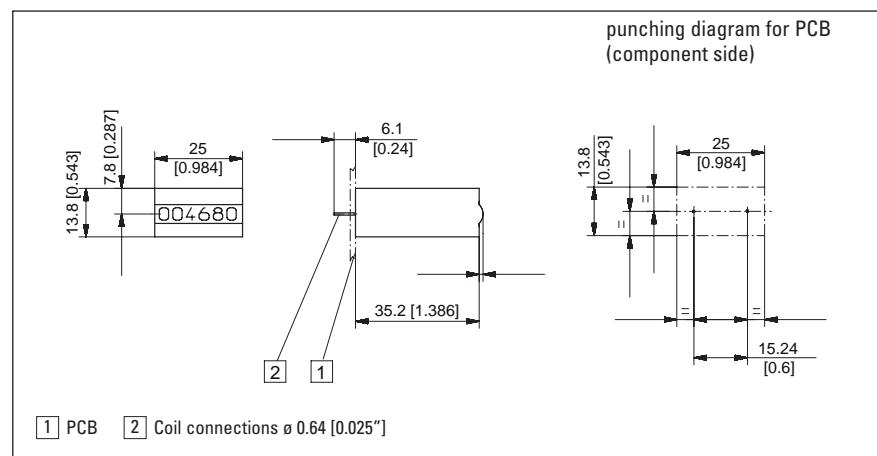


K 46.20	1.5 V Art.-No. DC (10 imp/s)	3 V Art.-No. 1.700.200.002	4.5 V Art.-No. 1.700.200.008	5 V Art.-No. 1.700.200.009	6 V Art.-No. 1.700.200.010	12 V Art.-No. 1.700.200.012	24 V Art.-No. 1.700.200.013
K 47.20	1.5 V Art.-No. DC (10 imp/s)	3 V Art.-No. 1.710.200.002	4.5 V Art.-No. 1.710.200.008	5 V Art.-No. 1.710.200.009	6 V Art.-No. 1.710.200.010	12 V Art.-No. 1.710.200.012	24 V Art.-No. 1.710.200.013

Display counter electromechanical

Kubler

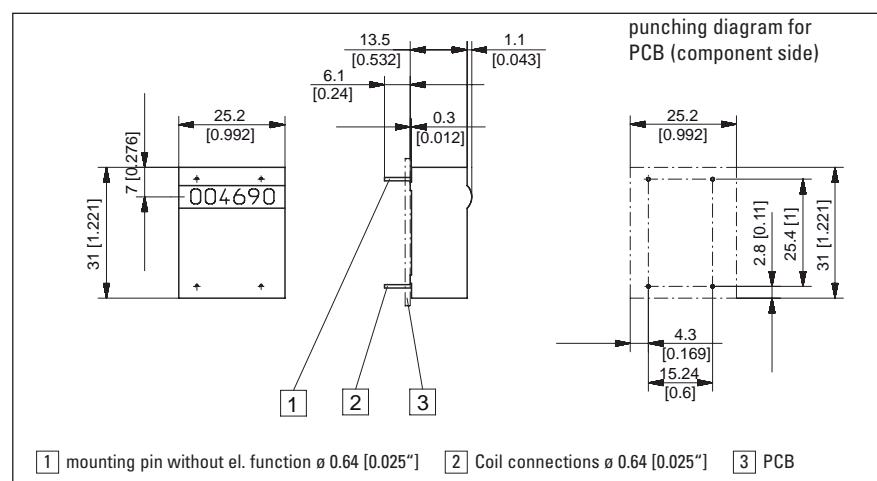
Type K 46.80/K 47.80



K 46.80	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.700.800.002	1.700.800.006	1.700.800.008	1.700.800.009	1.700.800.010	1.700.800.012	1.700.800.013

K 47.80	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.710.800.002	1.710.800.006	1.710.800.008	1.710.800.009	1.710.800.010	1.710.800.012	1.710.800.013

Type K 46.90/K 47.90



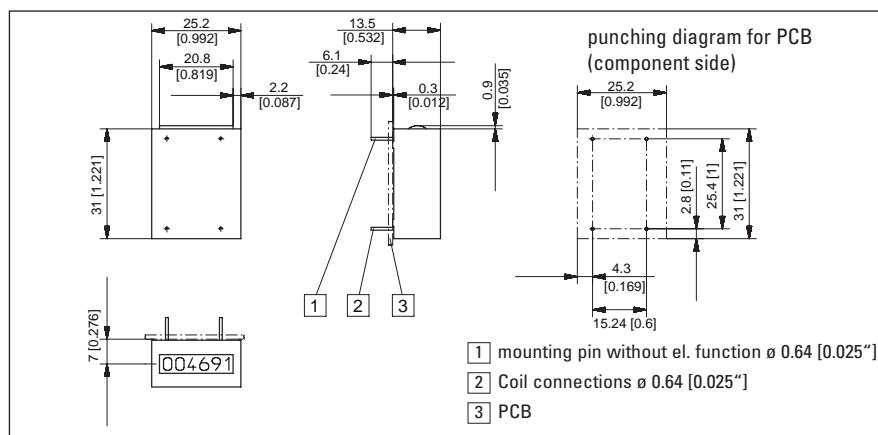
K 46.90	1,5 V Art.-No.	3 V Art.-No.	4,5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.700.900.002	1.700.900.006	1.700.900.008	1.700.900.009	1.700.900.010	1.700.900.012	1.700.900.013

K 47.90	1,5 V Art.-No.	3 V Art.-No.	4,5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.710.900.002	1.710.900.006	1.710.900.008	1.710.900.009	1.710.900.010	1.710.900.012	1.710.900.013

Display counter electromechanical

Kubler

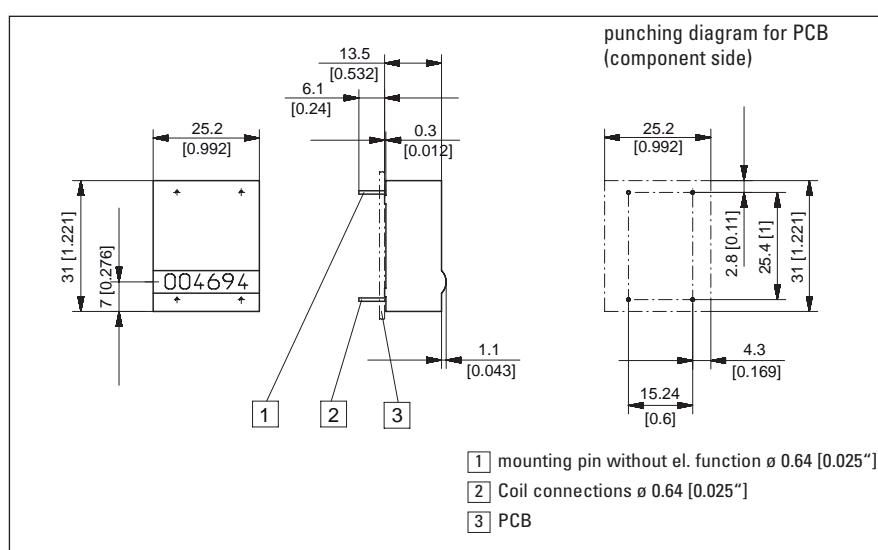
Type K 46.91/K 47.91



K 46.91	1.5 V Art.-No. DC (10 imp/s)	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
	1.700.910.002	1.700.910.006	1.700.910.008	1.700.910.009	1.700.910.010	1.700.910.012	1.700.910.013

K 47.91	1.5 V Art.-No. DC (10 imp/s)	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
	1.710.910.002	1.710.910.006	1.710.910.008	1.710.910.009	1.710.910.010	1.710.910.012	1.710.910.013

Type K 46.94

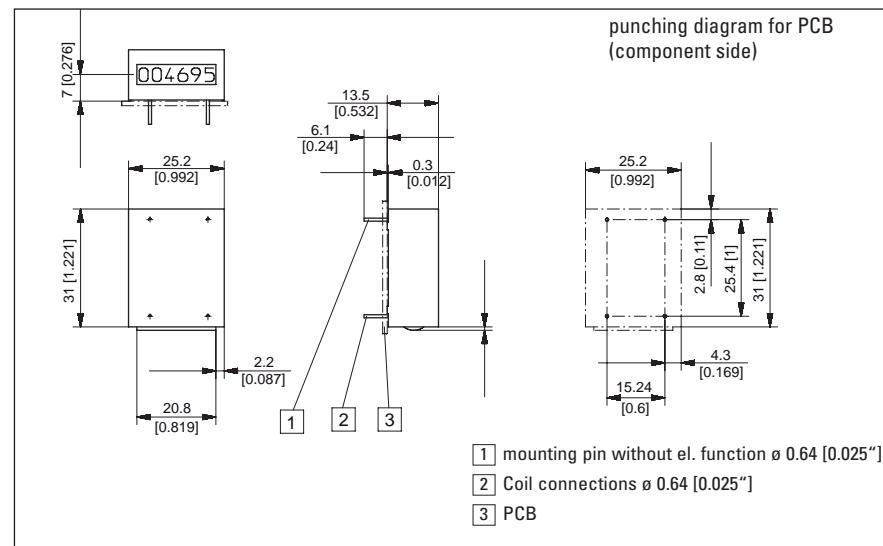
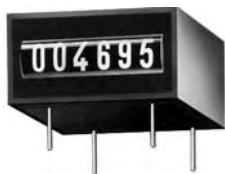


K 46.94	1.5 V Art.-No. DC (10 imp/s)	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
	1.700.940.002	1.700.940.006	1.700.940.008	1.700.940.009	1.700.940.010	1.700.940.012	1.700.940.013

Display counter electromechanical

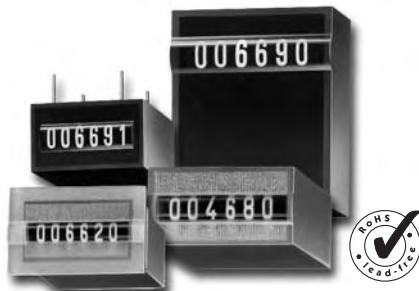
Kubler

Type K 46.95



K 46.95	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.700.950.002	1.700.950.006	1.700.950.008	1.700.950.009	1.700.950.010	1.700.950.012	1.700.950.013

Micro Display counter K 66, K 67 shock- and magnetic field resistant



- 6/7-digit micro adding counter
- **not affected by magnetic fields as moving parts are made from plastic or non-ferrous metal (patented system).**
- maximum shock resistance, as a counter-rotating movement is required for counting, ACR-system (patented).
- Low power consumption; suitable for battery consumption
- small dimensions
- large optical figures
- Flush mount with integrated spring clip

- PCB-mount versions
- Solderable and wash proof
- Protection IP 65
- Stores value also at power failure
- Long service life



* on all electromechanical devices that are built into kWh meters

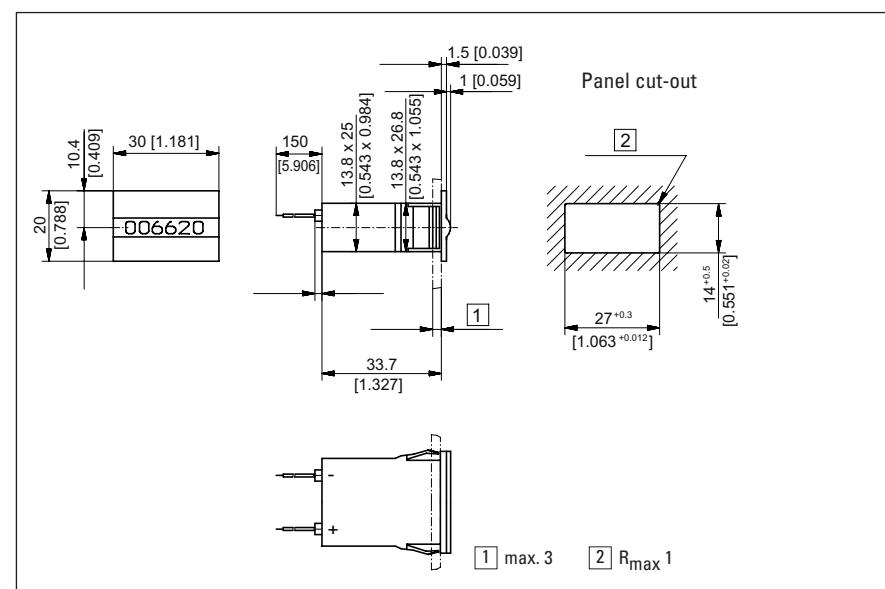
Technical data:

Electrical Connection:	flush mount: Flying leads AWG 22 approx. 150 mm [5.906"]	Mounting position:	number wheel view horizontal
	PCB-mount: solder pins ø 0.64 mm [0.025"]	Operating life:	> 50 x 10 ⁶ pulses
Power consumption:	up to 6 V DC: approx. 70 mW	solderable and wash proof types	K 66.80, K 66.90, K 66.91, K 66.94, K 66.95
(at 20 °C)	at 12 V DC: approx. 120 mW	Protection:	K 67.80, K 67.90, K 67.91
	at 24 V DC: approx. 500 mW	Housing:	IP 65 (K 66.20, K 67.20: only front side)
Rated voltage:	1.5/3/4.5/5/6/12/24 V DC-10 % +20 %		clear plastic
Counting frequency:	max. 10 Imp/s (type 0)		types with protection
Pulse duration:	min. 50 ms		IP 65 are sealed
Pulse interval:	min. 50 ms	Weight:	9 ... 11 g [0.317 ... 0.388 oz]
Cycle duration factor:	100 %	Options:	K 66.20, K 66.80, K 67.20, K 67.80: flat pin 0.8 x 2.8 mm [0.032 x 0.11"]
Number of digits:	6 (K 66), 7 (K 67)		and push on connectors
Counting system:	adding	K 66.20, K 67.20:	solder pins ø 0.64 mm [0.025"]
Height of figures:	K 66: 4 x 1.7 mm [0.067"]	K 66.9x ... 71, K 67.9x ... 71:	types with spacer (High 6 mm [0.236"] Draw.1)
	K 67: 4 x 1.25 mm [0.049"] optical	Further options:	– different voltages – counting frequency > 10 Imp/s – different colour of figures – extended temperature range –30 ... +85 °C or –20 ... +70 °C [–22 ... 185 °F or –4 ... 158 °F]
Colour of figures:	white on black		
Reset:	no reset		
Ambient temperature:	–10 ... +60 °C [14 ... 140 °F]		

Series:

Type	Display	el. Connection	Description
K66.20, K 67.20	Small side	Flying leads	Panel mount with latch
K66.80, K 67.80	Small side	Solder pins	PCB mount wash proof
K66.90, K 67.90	Large side	Solder pins	PCB mount wash proof
K66.91, K 67.91	Small side	Solder pins	PCB mount wash proof
K66.94	Large side	Solder pins	PCB mount wash proof
K66.95	Small side	Solder pins	PCB mount wash proof

Type K 66.20/K 67.20



Order code see next page.

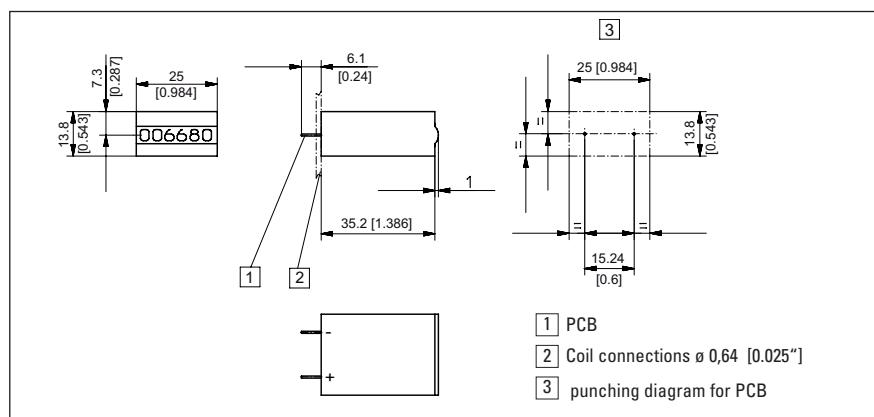
Display counter electromechanical

Kubler

Type K 66.20/K 67.20

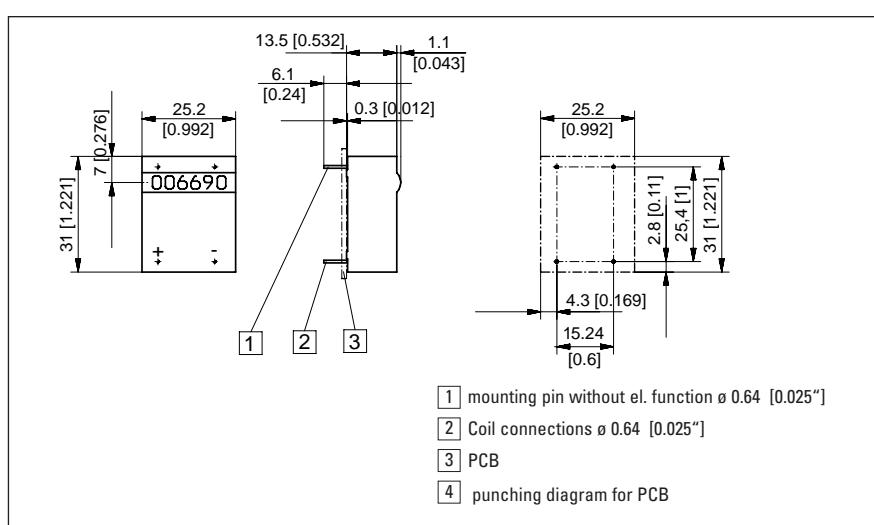
K 66.20	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.650.200.002	1.650.200.006	1.650.200.008	1.650.200.009	1.650.200.010	1.650.200.012	1.650.200.013
K 67.20	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.660.200.002	1.660.200.006	1.660.200.008	1.660.200.009	1.660.200.010	1.660.200.012	1.660.200.013

Type K 66.80/K 67.80



K 66.80	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.650.800.002	1.650.800.006	1.650.800.008	1.650.800.009	1.650.800.010	1.650.800.012	1.650.800.013
K 67.80	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.660.800.002	1.660.800.006	1.660.800.008	1.660.800.009	1.660.800.010	1.660.800.012	1.660.800.013

Type K 66.90/K 67.90



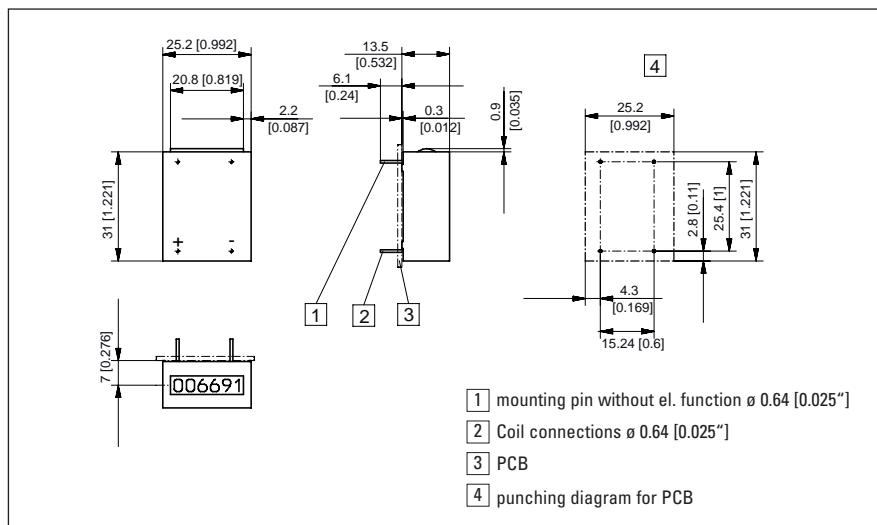
K 66.90	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.650.900.002	1.650.900.006	1.650.900.008	1.650.900.009	1.650.900.010	1.650.900.012	1.650.900.013

K 67.90	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.660.900.002	1.660.900.006	1.660.900.008	1.660.900.009	1.660.900.010	1.660.900.012	1.660.900.013

Display counter electromechanical

Kubler

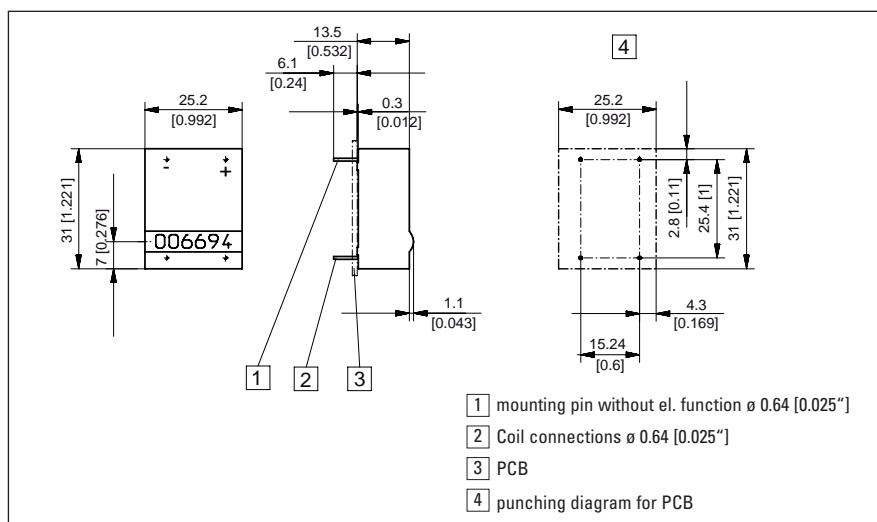
Type K 66.91/K 67.91



K 66.91	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.650.910.002	1.650.910.006	1.650.910.008	1.650.910.009	1.650.910.010	1.650.910.012	1.650.910.013

K 67.91	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.660.910.002	1.660.910.006	1.660.910.008	1.660.910.009	1.660.910.010	1.660.910.012	1.660.910.013

Type K 66.94

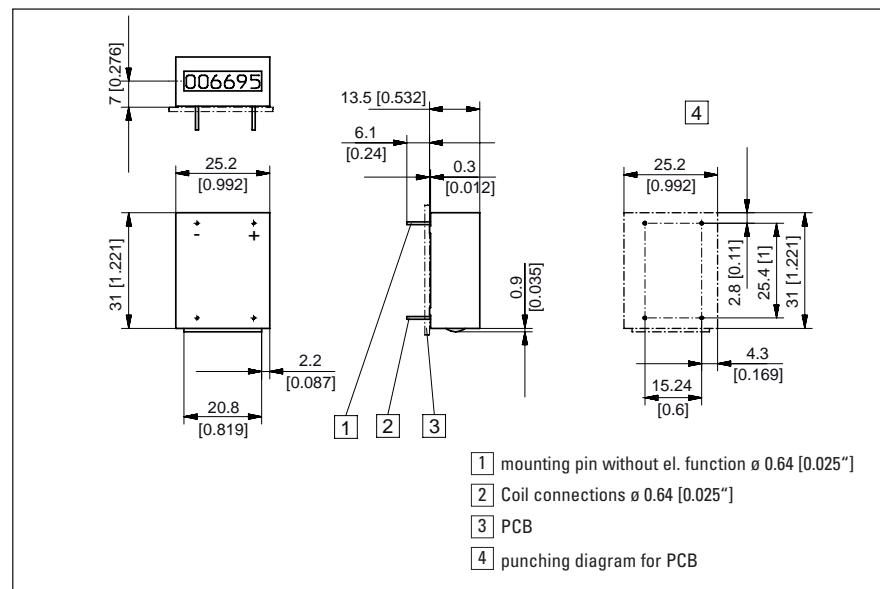


K 66.94	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.650.940.002	1.650.940.006	1.650.940.008	1.650.940.009	1.650.940.010	1.650.940.012	1.650.940.013

Display counter electromechanical

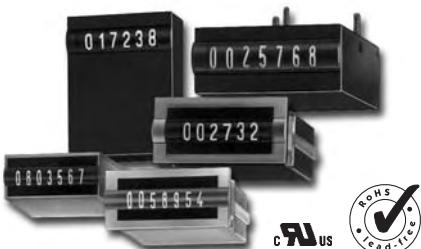
Kubler

Type K 66.95



K 66.95	1.5 V Art.-No.	3 V Art.-No.	4.5 V Art.-No.	5 V Art.-No.	6 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 imp/s)	1.650.950.002	1.650.950.006	1.650.950.008	1.650.950.009	1.650.950.010	1.650.950.012	1.650.950.013

Micro Display counter K 04 ... K 07, shock resistant



- 4-, 5-, 6- and 7 digit Micro adding counter
- High shock resistance
- Low power consumption; suitable for battery consumption
- small dimensions
- Large optical figures
- Different viewing possibilities
- Flush mount with integrated spring clip
- PCB-mount versions
- Solderable and wash proof
- Protection IP 65

- Stores value also at power failure
- long service life
- UL us UL approval on request



* on all electromechanical devices that are built into kWh meters

Technical data:

Electrical Connection:	Built-in counter	Flying leads AWG 22 approx. 150 mm [5.906"]	Reset:	no reset
	PCB counter:	Solder pins 0,4 x 1,2 mm [0.016 x 0.047"]	Ambient temperature:	-10 ... +60 °C [14 °F ... 140 °F]
Power consumption: (at 20 °C and normal voltage)	at 10 Imp/s (type 0): at 25 Imp/s (type 1): at 10 Imp/s (type a0):	approx. 50 mW approx. 250 mW approx. 800 mVA	Mounting position:	any
Rated voltage:	type 0: 1.5/3/4.5/5/6/12 V DC type 1: 3/4.5/5/6/12/24 V DC ± 10 % type 4: 24 V DC -10 % +20 % type a0: 12/24/115/230 V AC ± 10 %		Operating life: solderable and wash proof types	> 50 x 10 ⁶ pulses K 04.92, K 05.92, K 06.90, K 06.92, K 07.90 K 07.92
Counting frequency:	max. 10 and 25 Imp/s		Protection:	K 04.92, K 05.92, K 06.90, K 06.92, K 07.90 K 07.92: IP 65 (K 04.20, K 05.20, K 06.20, K 07.20: IP 65 only front side) others, depending from kind of mounting
Pulse duration:	at 10 Imp/s (type 0 and a0): min. 50 ms at 25 Imp/s (type 1): min. 20 ms		UL-certified:	File E43429
Pulse interval:	at 10 Imp/s (type 0 and a0): min. 50 ms at 25 Imp/s (type 1): min. 20 ms		Housing:	clear plastic or steel (see table "Series") types with protection IP 65 are fully sealed enclosure
Cycle duration factor:	100 %		Weight:	15 ... 18 g [0.529 ... 0.635 oz]
Number of digits:	4, 5, 6 and 7		Options:	K 0x.20 Flat pin 0.5 x 2.8 mm [0.02 x 0.11] Art.-No.: 1.1X7.XX0.XXX – different voltages – version not potted – different figure colours – different lengths of flying leads – different connections – different temperature range, depends on version –30 ... +85 °C, –20 ... +70 °C [–22 °F ... 185 °F, –4 °F ... 158 °F]
Counting system:	adding			
Height of figures:	K 04, K 06: 1,7 x 4 mm [0.067 x 0.158"] optical K 05, K 07: 1,2 x 4 mm [0.047 x 0.158"] optical			
Colour of figures:	white on black			

Series:

4 digit	5 digit	6 digit	7digit	Housing	Display	Description
K 04.20	K 05.20	K 06.20	K 07.20	Plastic	Small side	Flush mount
K 04.40	K 05.40	K 06.40	K 07.40	Steel	Large side	PCB mount
K 04.50	K 05.50	K 06.50	K 07.50	Steel	Small side	PCB mount
K 04.80	K 05.80	K 06.80	K 07.80	Plastic	Small side	PCB mount
K 06.90	K 07.90			Plastic	Large side	PCB mount wash proof
K 04.92	K05.92	K 06.92	K 07.92	Plastic	Small side	PCB mount wash proof

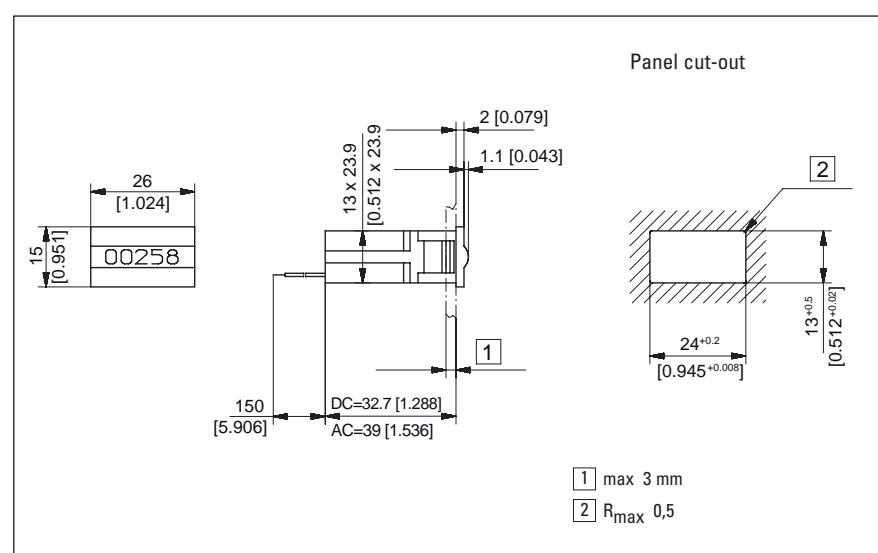
Ordering information:

- Article number
- for options please give exact counter type, voltage and options e.g. K 06.20, 9 V DC/0 temperature range -20 °C ... +70 °C [-4 °F ... 158 °F]

Display counter electromechanical

Kubler

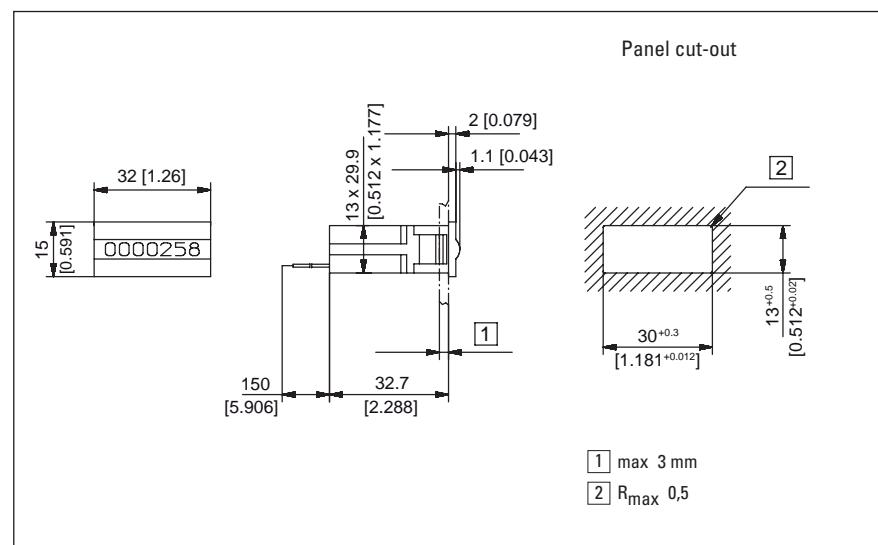
Type K 04.20 and K 05.20



K 04.20	3 V	4.5 V	12 V	24 V	115 V	230 V
(4 digit)	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.
DC (10 Imp/s)	1.100.200.006	1.100.200.008	1.100.200.012	1.100.200.418		
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	3 V	4.5 V	12 V	24 V	115 V	230 V
(5 digit)	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.
DC (10 Imp/s)	1.110.200.006	1.110.200.008	1.110.200.012	1.110.200.418		
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

Type K 06.20 and K 07.20



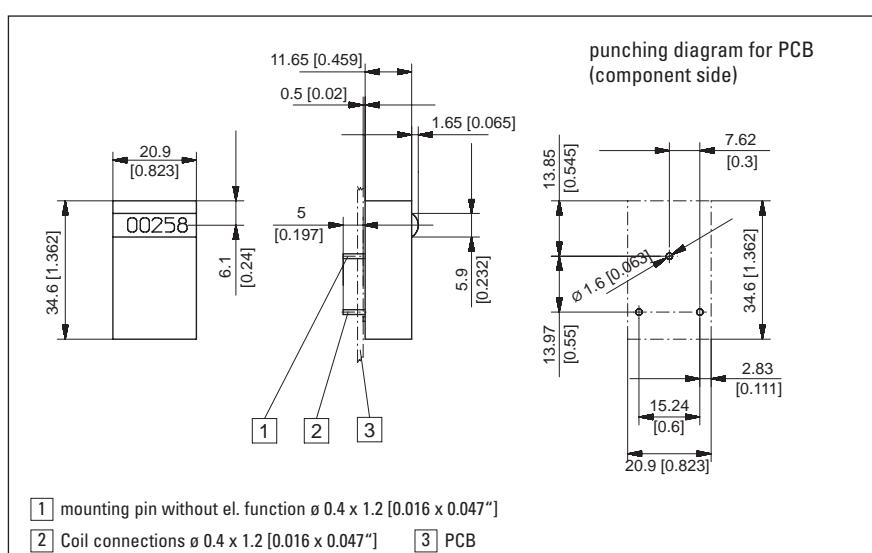
K 06.20	3 V	4.5 V	12 V	24 V	115 V	230 V
(6 digit)	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.
DC (10 Imp/s)	1.120.200.006	1.120.200.008	1.120.200.012	1.120.200.418		
DC (25 Imp/s)			1.120.200.032	1.120.200.033		
AC (10 Imp/s)				1.120.200.051	1.120.200.054	1.120.200.056

K 07.20	3 V	4.5 V	12 V	24 V	115 V	230 V
(7 digit)	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.
DC (10 Imp/s)	1.130.200.006	1.130.200.008	1.130.200.012	1.130.200.012		
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

Display counter electromechanical



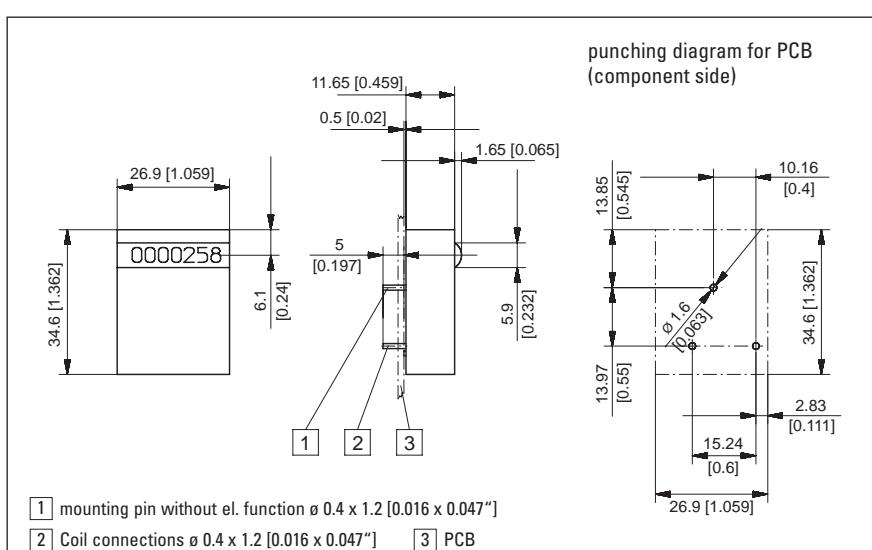
Type K 04.40 and K 05.40



K 04.40 (4 digit)	3 V Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (10 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. DC (10 Imp/s)
	1.100.401.006	1.100.401.008	1.100.401.012	1.100.401.418

K 05.40 (5 digit)	3 V Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (10 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. DC (10 Imp/s)
	1.110.401.006	1.110.401.008	1.110.401.012	1.110.401.418

Type K 06.40 and K 07.40



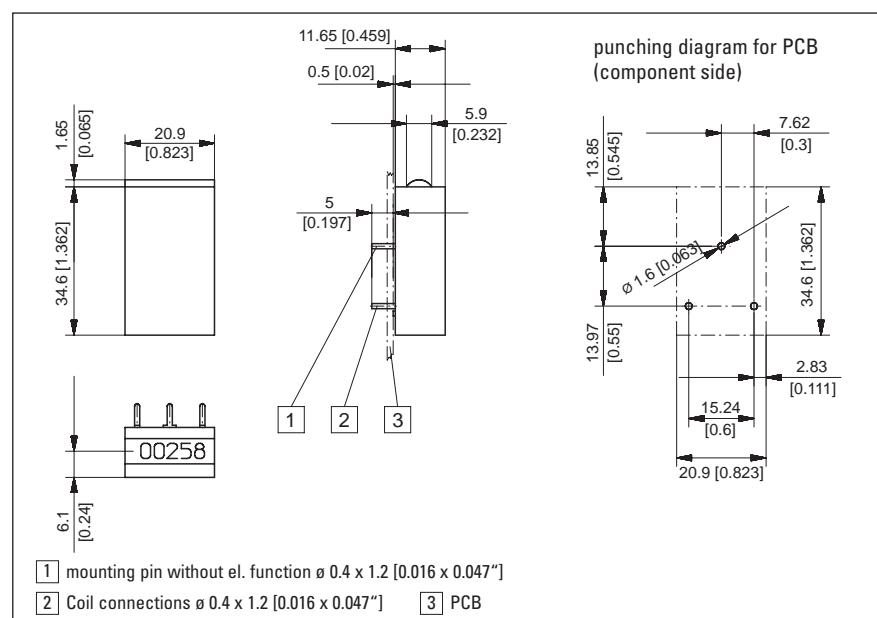
K 06.40 (6 digit)	3 V Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (10 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. DC (10 Imp/s)
	1.120.401.006	1.120.401.008	1.120.401.012	1.120.401.032

K 07.40 (7 digit)	3 V Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (10 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. DC (10 Imp/s)
	1.130.401.006	1.130.401.008	1.130.401.012	1.130.401.032

Display counter electromechanical

Kubler

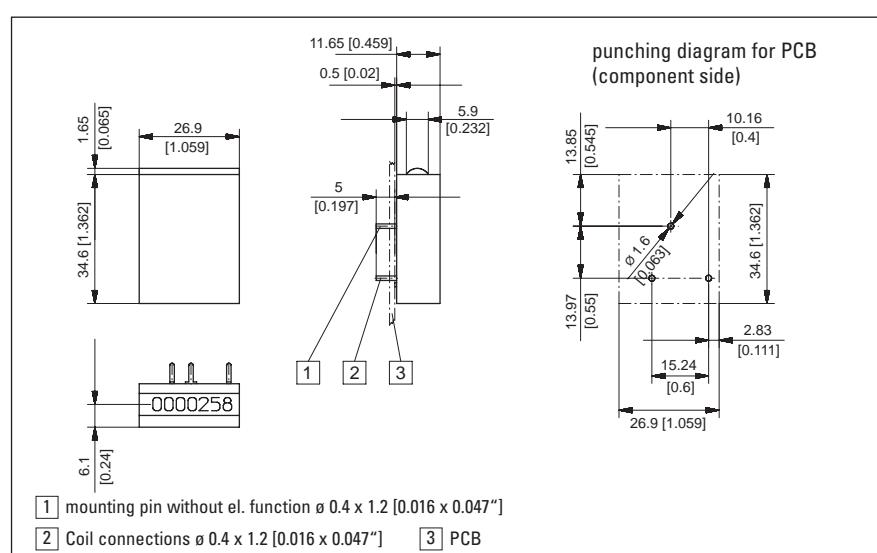
Type K 04.50 and K 05.50



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	1.100.501.418
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	1.110.501.418
DC (25 Imp/s)			1.110.501.032	1.110.501.033

Type K 06.50 and K 07.50



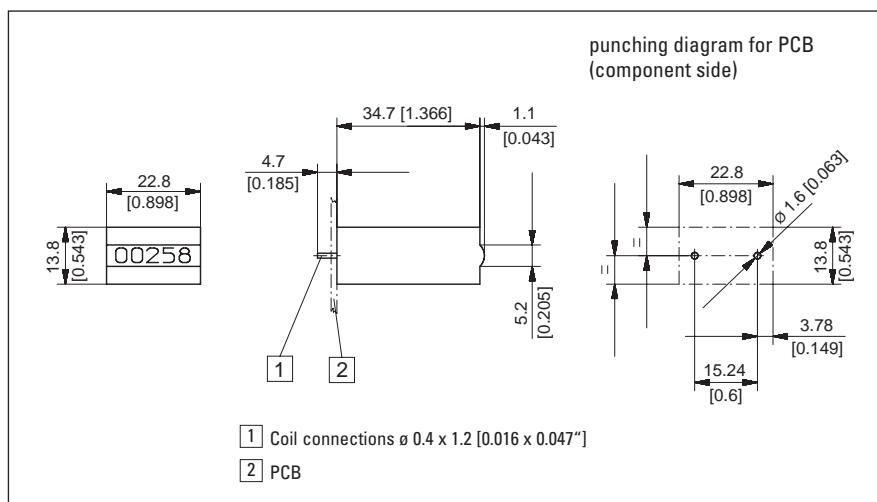
K 06.50 (6 digit)	3 V Art.-No.	4.5 V Art.-No.	12 V Art.-No.	24 V Art.-No.
DC (10 Imp/s)	1.120.501.006	1.120.501.008	1.120.501.012	1.120.501.418
DC (25 Imp/s)			1.120.501.032	1.120.501.033

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	1.130.501.418
DC (25 Imp/s)			1.130.501.032	1.130.501.033

Display counter electromechanical



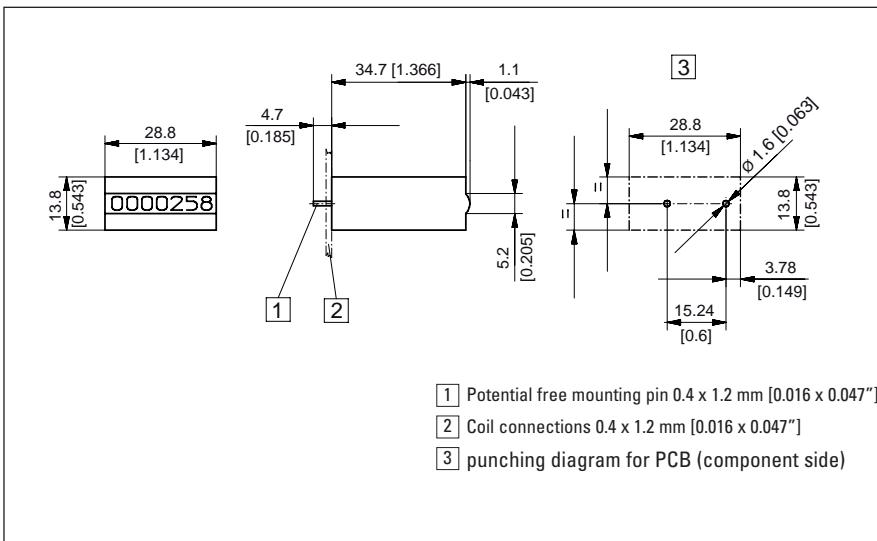
Type K 04.80 and K 05.80



K 04.80 (4 digit)	3 V Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (10 Imp/s)	12 V Art.-No. DC (25 Imp/s)	24 V Art.-No.
	1.100.800.006	1.100.800.008	1.100.800.012 1.100.800.032	1.100.800.418 1.100.800.033

K 05.80 (5 digit)	3 V Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (10 Imp/s)	12 V Art.-No. DC (25 Imp/s)	24 V Art.-No.
	1.110.800.006	1.110.800.008	1.110.800.012 1.110.800.032	1.110.800.418 1.110.800.033

Type K 06.80 and K 07.80



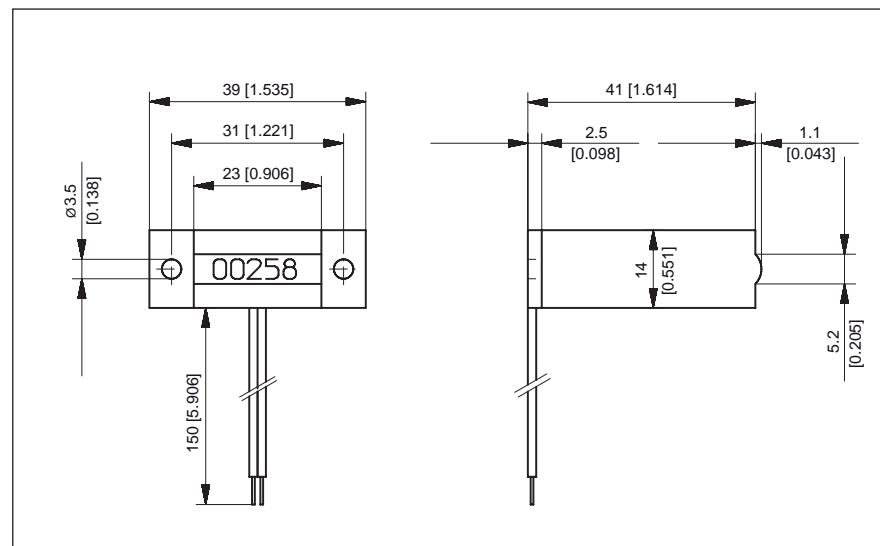
K 06.80 (6 digit)	3 V Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (25 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. DC (25 Imp/s)	115 V Art.-No.	230 V Art.-No.
	1.120.800.006	1.120.800.008	1.120.800.012 1.120.800.032	1.120.800.418 1.120.800.033		

K 07.80 (7 digit)	3 V Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (25 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. DC (25 Imp/s)	115 V Art.-No.	230 V Art.-No.
	1.130.800.006	1.130.800.008	1.130.800.012 1.130.800.032	1.130.800.418 1.130.800.033		

Display counter electromechanical

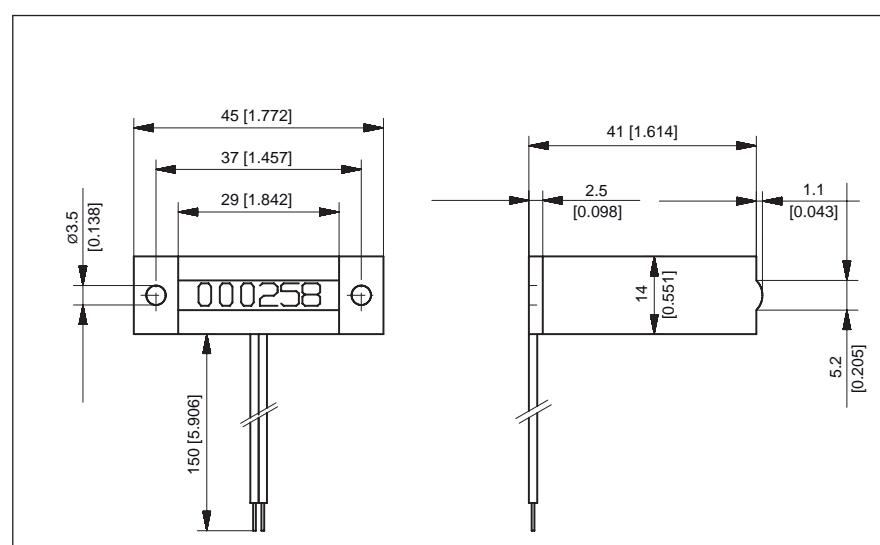
Kubler

AK 05.00



AK 05.00	3 V (5 digit)	Art.-No.	4.5 V Art.-No.	Art.-No.	12 V Art.-No.	Art.-No.	24 V Art.-No.	Art.-No.	115 V Art.-No.	Art.-No.	230 V Art.-No.
DC (10 Imp/s)	1.110.000.006		1.110.000.008		1.110.000.012		1.110.000.418				
DC (25 Imp/s)					1.110.000.032		1.110.000.033				
AC (10 Imp/s)							1.110.000.051		1.110.000.054		1.110.000.056

Type AK 06.00 and AK 07.00



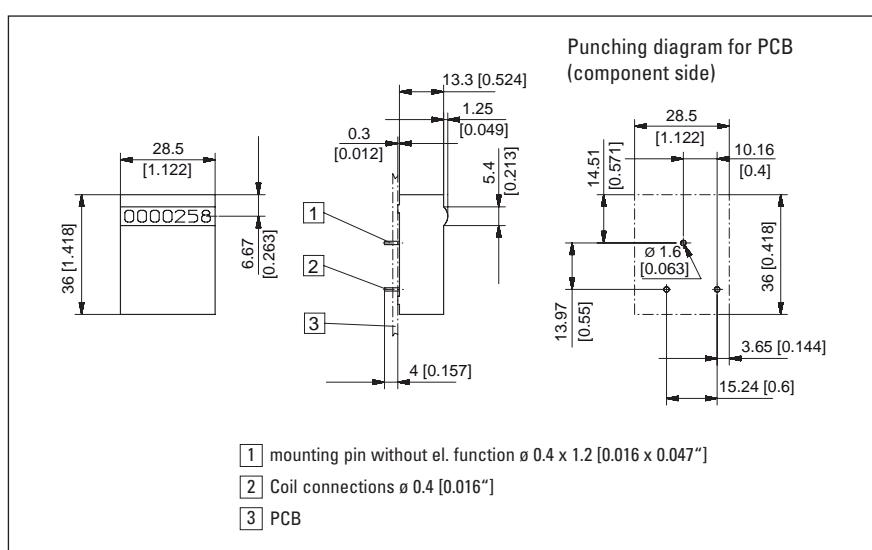
AK 06.00	3 V (6 digit)	Art.-No.	4.5 V Art.-No.	Art.-No.	12 V Art.-No.	Art.-No.	24 V Art.-No.	Art.-No.	115 V Art.-No.	Art.-No.	230 V Art.-No.
DC (10 Imp/s)	1.120.000.006		1.120.000.008		1.120.000.012		1.120.000.418				
DC (25 Imp/s)					1.120.000.032		1.120.000.033				
AC (10 Imp/s)							1.120.000.051		1.120.000.054		1.120.000.056

AK 07.00	3 V (7 digit)	Art.-No.	4.5 V Art.-No.	Art.-No.	12 V Art.-No.	Art.-No.	24 V Art.-No.	Art.-No.	115 V Art.-No.	Art.-No.	230 V Art.-No.
DC (10 Imp/s)	1.130.000.006		1.130.000.008		1.130.000.012		1.130.000.418				
DC (25 Imp/s)					1.130.000.032		1.130.000.033				
AC (10 Imp/s)							1.130.000.051		1.130.000.054		1.130.000.056

Display counter electromechanical

Kubler

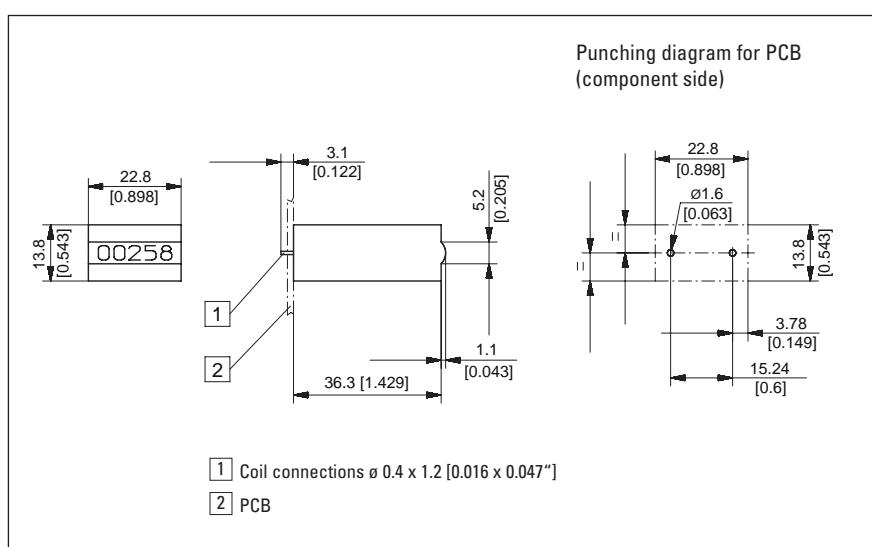
Type K 06.90 and K 07.90



K 06.90	3 V (6 digit) Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (25 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. AC (10 Imp/s)	115 V Art.-No.	230 V Art.-No.
	1.120.900.006	1.120.900.008	1.120.900.012	1.120.900.418		

K 07.90	3 V (7 digit) Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (25 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. AC (10 Imp/s)	115 V Art.-No.	230 V Art.-No.
	1.130.900.006	1.130.900.008	1.130.900.012	1.130.900.418		

Type K 04.92 and K 05.92



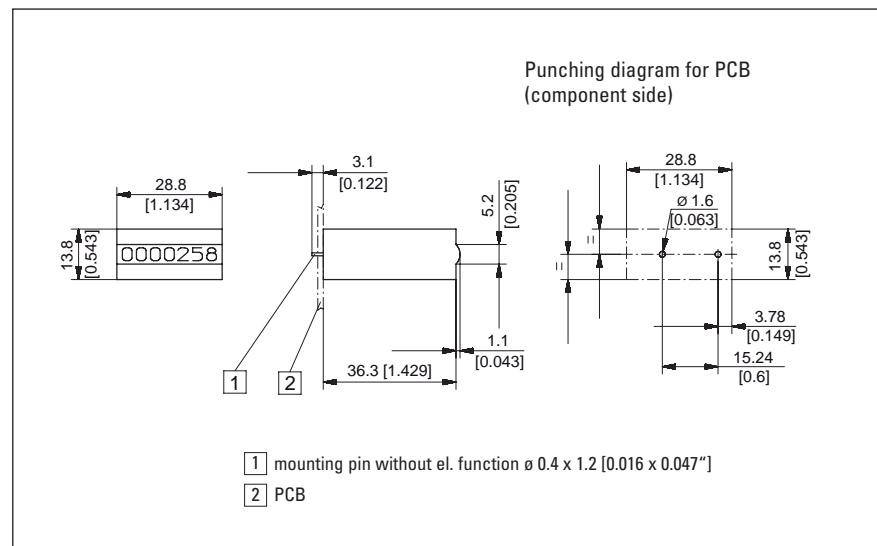
K 04.92	3 V (4 digit) Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (25 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. DC (25 Imp/s)
	1.100.920.006	1.100.920.008	1.100.920.012	1.100.920.418

K 05.92	3 V (5 digit) Art.-No. DC (10 Imp/s)	4.5 V Art.-No. DC (25 Imp/s)	12 V Art.-No. DC (10 Imp/s)	24 V Art.-No. DC (25 Imp/s)
	1.110.920.006	1.110.920.008	1.110.920.012	1.110.920.418

Display counter electromechanical

Kubler

Type K 06.92 and K 07.92



K 06.92	3 V (6 digit) Art.-No.	4.5 V Art.-No.	12 V Art.-No.	24 V Art.-No.	115 V Art.-No.	230 V Art.-No.
DC (10 Imp/s)	1.120.920.006	1.120.920.008	1.120.920.012			
DC (25 Imp/s)			1.120.920.032	1.120.920.033		
AC (10 Imp/s)				1.120.920.051	1.120.920.054	1.120.920.056

K 07.92	3 V (7 digit) Art.-No.	4.5 V Art.-No.	12 V Art.-No.	24 V Art.-No.	115 V Art.-No.	230 V Art.-No.
DC (10 Imp/s)	1.130.920.006	1.130.920.008	1.130.920.012			
DC (25 Imp/s)			1.130.920.032	1.130.920.033		
AC (10 Imp/s)				1.130.920.051	1.130.920.054	1.130.920.056

KWH 17



- Reliable:**
high degree of resistance against external influences such as magnetic fields. Does not need any multiple shielding.
- Simple:**
can be soldered directly onto the printed circuit board. To assemble it, just solder it in. Snap-on or screw mounting. Triggered via rectangular- or needle-shaped pulses.

- Compact & economical:**
In double tariff meters, two counting mechanisms can be easily placed tight up against each other. 5 x 3 mm large digits as with conventional Ferraris meters. Low power consumption.

A pplications

Assembly module for electronic kWh meters. Each incoming pulse advances the decimal place of the counting mechanism by 1/100 of a revolution.

Important note:

Not all counting mechanisms are the same. Do not take any expensive risks. Opt straight away for the original and the world's best-selling counter with stepper motor drive system from the market leader Kübler. Profit from our 45 years of experience. Optimum quality means that we can now offer you 5 years guarantee.

Thanks to a special shielding material, the KWH 17 with its patented stepper motor drive is particularly resistant to magnetic fields and is characterized by an extremely low power consumption.

Technical data:

Drive:	Stepper motor	Stepper motor
Nominal voltage:	5 V DC ±10 %	10 V DC ±10 %
Activation:	rectangular- or needle-shaped pulses	rectangular- or needle-shaped pulses
Electrical connection:	Solder pins	Solder pins
Display:	7-digit display, decimal place with additional 1/100 division	Counter reading on delivery: 000 0001 ±3 digits
Figure drums:	Digits white, background black, decimal place red, Background black	
Coil resistance:	1 kOhm	3.6 kOhm
Power consumption:	25 mW	8 mW
Height of figures:	5 x 3 mm	5 x 3 mm
Ambient temperature:	-20 ... +70 °C	-20 ... +70 °C

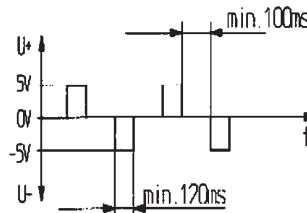
Options:

Division other than 1/100, other mechanical division Adaptation, alternative supply voltage and other coil resistance values	on request
--	------------

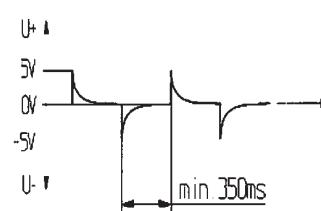
Data sheet and other options in the catalog
(order number R.100.156)



Pulse diagrams:



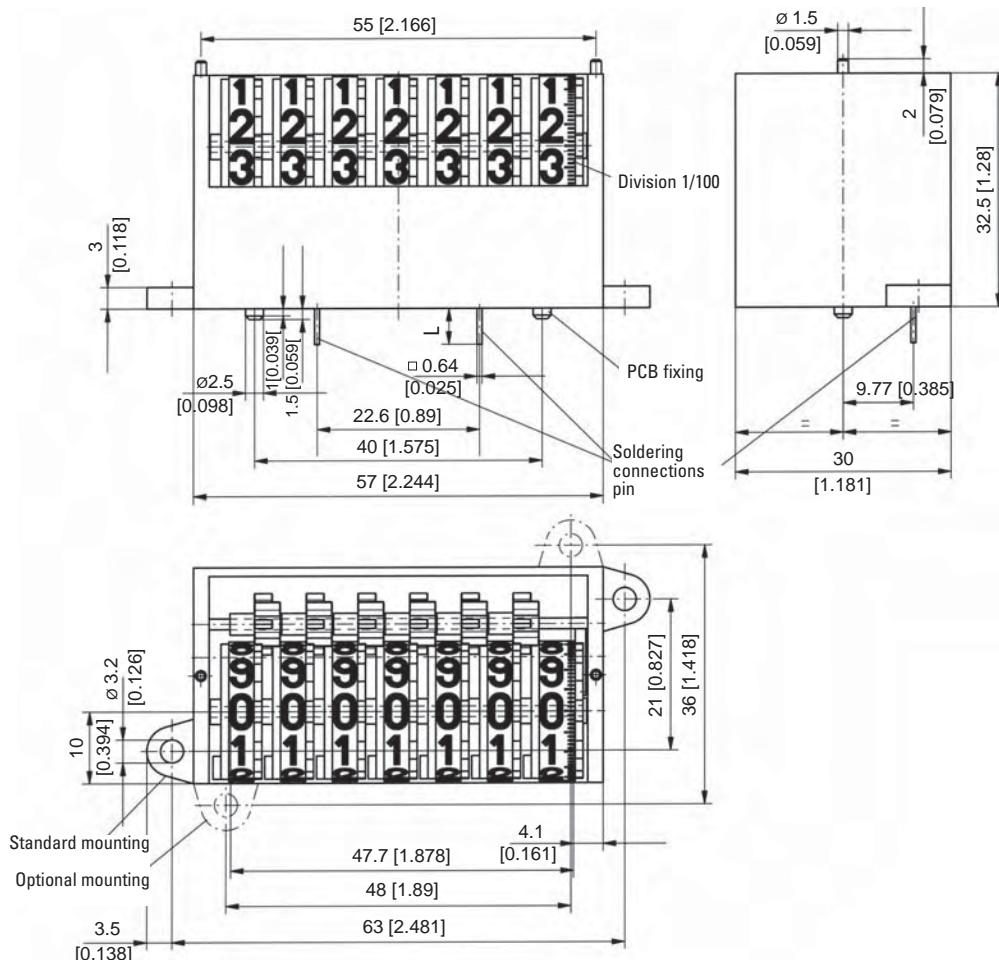
Rectangular shaped pulses



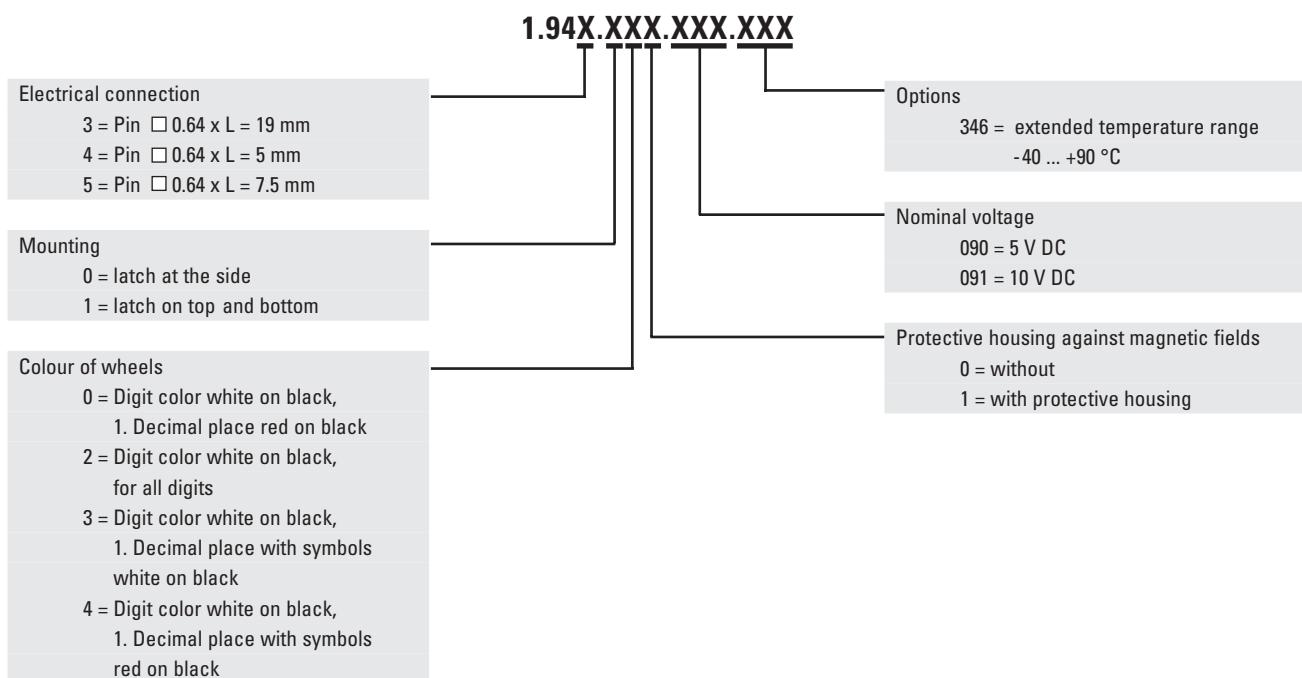
Pulses by capacitor charge or discharge

KWH 17

Dimensions:



Order code:



LCD Counter Module 190

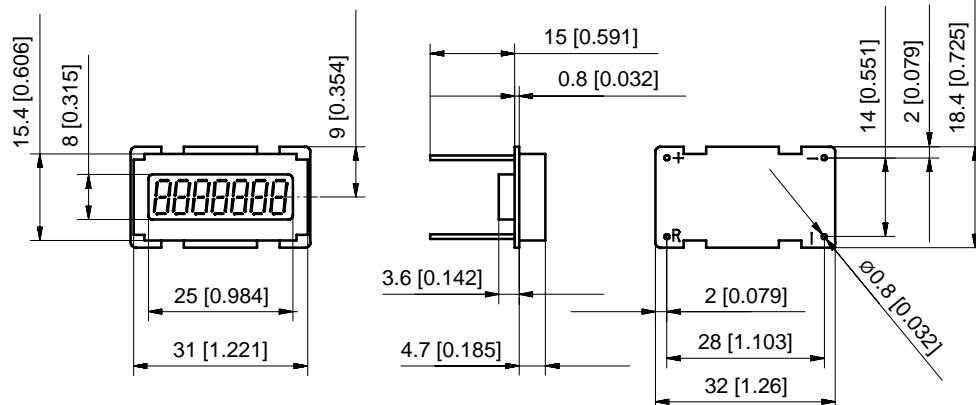


- Counting frequency up to 10 kHz
- 7-digit display, height 6 mm [0.236"]
- Non-volatile memory (no battery, EEPROM)
- High reliability
- Low operating current
- Wide operating voltage and temperature range
- Very high shock and vibration specs
- Low cost and small size

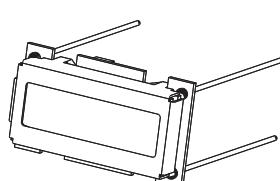
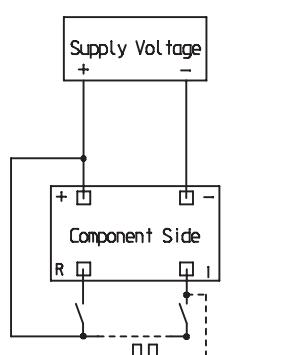
Technical features for LCD Counter Module Type 190:

Supply:	1. 4,75 ... 15 V DC 2. 9 ... 60 V DC reverse polarity protection	Interference emission:	EN 61000-6-3, EN 55 011 Class B
Current consumption:	1. 8 mA at 4,75 ... 15 V DC 2. 6 mA at 9 ... 60 V DC	Interference resistance:	EN 61000-6-2
Count and reset input:	High 4 ... 60 V DC, Low: 0 ... 0,7 V DC	Weight:	approx. 8 g [0.282 oz]
Max. Count frequency:	10 kHz (edge triggered)	Memory capacity:	CMOS EEPROM. non-volatile memory has data retention in excess of 10 years.
Display:	7-digit display, figure height 6 mm [0.236"]	Shock resistance acc. to DIN-IEC 68-2-27:	550 m/s ² , 11 ms
Data backup:	EEPROM	Vibration resistance acc. to DIN-IEC 68-2-6:	50 ... 200 m/s ² , 10 ... 80 Hz
Colour:	black	Needs protection from:	inductive stress peaks high energy noise fields switching, alternator load dump
Working temperature:	-20 ... +85 °C [-4 °F ... 185 °F]		
Operating temperature:	-40 ... +80 °C [-40 °F ... 176 °F]		
Storage temperature:	-50 ... +90 °C [-58 °F ... 194 °F]		

Dimensions:



Connecting diagram:



Order code:

Availability on request

LCD count module type 190:

4,75 ... 15 V DC Order-No.: 6.190.012.F00

Art-No.: 162 135

9 ... 60 V DC Order-No.: 6.190.012.G00

Art-No.: 162 136

Scope of delivery:

- LCD Counter Module Type 190
- Operating instructions

LCD Counter Module 192

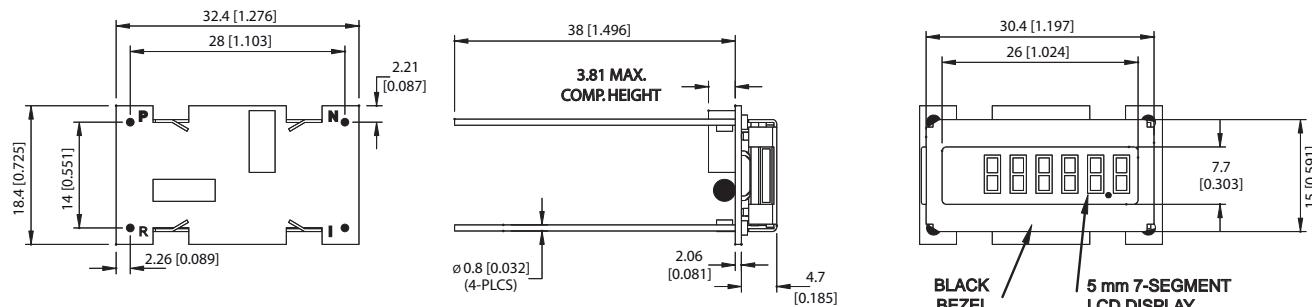


- Non-volatile memory (no battery)
- High reliability
- Low cost and small size
- Low operating current
- Wide operating voltage and temperature range
- Very high shock and vibration specs
- Solid state electronics

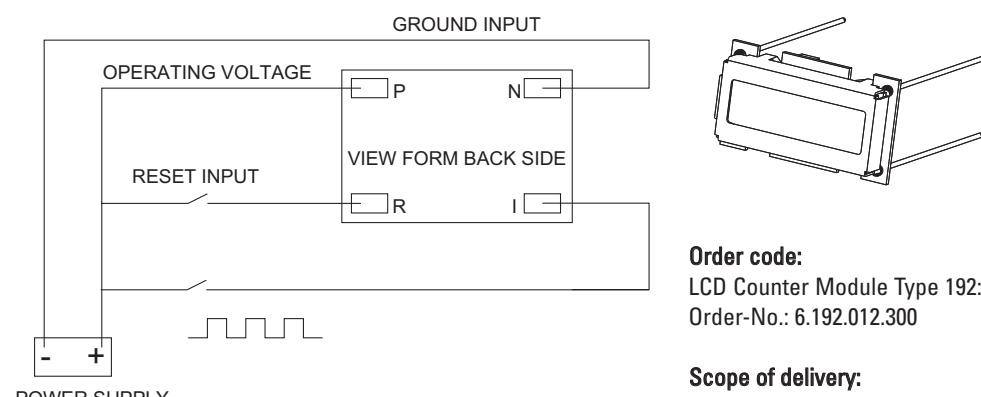
Technical features for LCD Counter Module Type 192:

Supply:	8 ... 28 V DC	Humidity:	95 % RH +32 °C for 2 hours
Current consumption:	3 mA maximum at 8 ... 24 V DC 10 mA at 28 V DC	EMC:	according to EC EMC directive 89/36/EWG
Count and reset input:	8 ... 28 V DC	Interference emission:	EN 61 000-6-3/EN 55011 Class B
Max. Count frequency:	100 Hz	Interference resistance:	EN 61 000-6-2
Display:	6-digit display, figure height 5 mm [0.197"]	Weight:	approx. 8 g [0.282 oz]
Data backup:	EEPROM	Memory capacity:	CMOS EEPROM. non-volatile memory has data retention in excess of 10 years without power.
Housing:	Dimension 19 x 33 mm [0.748 x 1.299"]	Needs protection from:	inductive stress peaks high energy noise fields switching, alternator load dump
Colour:	black		
Operating temperature:	-40 ... +85 °C [-40 °F ... 185 °F]		

Dimensions:



Connecting diagram:



Order code:

LCD Counter Module Type 192:
Order-No.: 6.192.012.300

Scope of delivery:

– LCD Counter Module Type 192
– Operating instructions

Germany

09221 Neukirchen/Chemnitz

Registriertechnik
Dipl.-Ing. Jörg Müller
Hauptstraße 148A
Tel. +49-(0)3713-30 47 89
Fax +49-(0)3713-30 47 89
Registriertechnikmueller@t-online.de

22149 Hamburg

Hermann Seidel GmbH
Techn., Vertretungen
Rahlstedter Str. 16
Tel. +49-(0)40-675085-0
Fax +49-(0)40-675085-85
seidel.gmbh@t-online.de

28876 Oyten

Fritz Kübler GmbH
Zähl- und Sensortechnik
Vertriebsbüro Nord
Herr Herrmann
Mohnblumenweg 6
Tel. 04207-6880-32
Fax +49-(0)4207-6880-34

35759 Driedorf

Fritz Kübler GmbH
Zähl- und Sensortechnik
Vertriebsbüro Mitte
Gartenstraße 10
H. Stefan Heinigk
Tel. +49-(0)2775-5784-27
Fax +49-(0)2775-5784-28
stefan.heinigk@kuebler.com

42499 Hückeswagen

Führmeister & Co.
Industrievertrittungen GmbH
Peter Str. 75
Tel. 02192-851122
Fax 02192-851127
info@fuehrmeister-gmbh.de
www.fuehrmeister-gmbh.de

66130 Saarbrücken-Güdingen

Herbert Neundoerfer
Werksvertretungen
Saargemünder Straße 68a
Tel. +49-(0)681-875454
Fax +49-(0)681-875453
info@herbert-neundoerfer.de
www.herbert-neundoerfer.de

78023 Villingen-Schwenningen

Fritz Kübler GmbH
Zähl- und Sensortechnik
Postfach 34 40
Tel. +49-(0)7720-39 03-0
Fax +49-(0)7720-21564
sales@kuebler.com
www.kuebler.com

78549 Speichingen

Fritz Kübler GmbH
Zähl- und Sensortechnik
Vertriebsbüro Süd-West
Karl Klärtsch
Eichenweg 1
Tel. +49 (0) 74 24 94 90 69
Fax +49 (0) 74 24 94 90 87
Mobil: +49 (0) 174 3 22 59 41
karl.klaritsch@kuebler.com
www.kuebler.com

88662 Überlingen

Fritz Kübler GmbH
Zähl- und Sensortechnik
Vertriebsbüro Süd-Ost
Stefan Rost
Burgbergstr. 91
Tel. 07551 93 63 75
Fax 07551 93 64 92
stefan.rost@kuebler.com
www.kuebler.com

Europe

German catalogue distributors:

64546 Mörfelden-Walldorf
RS Components GmbH
Hessenring 13 b
Tel. +49-(0)6105-401234
www.rs-components.de

82041 Oberhaching
Farnell InOne GmbH
Kelterring 14
Tel.: 089-61393939
www.farnellinone.de

82069 Hohenhöchstädt
Bachmann Electronic GmbH
Am Wagnerfeld 4
Tel. 08178-8676-0
Fax: 08178-8676-50
www.bachmann-electronic.de

92240 Hirschau
Conrad Electronic GmbH
Klaus-Conrad-Straße 1
Tel. +49-(0)9604-4089-88
www.conrad.com

Austria
Gebhard Balluff GmbH + Co.
Industriestraße B16
A-2345 Brunn am Gebirge
Tel. +43 0 22 36 3 25 21-0
Telefax +43 0 22 36 3 25 21 46
sensor@balluff.at
www.balluff.at

Belarus
FEK Company
ul. Engelsa, 30
BY-220030 Minsk
Tel. +375 17 210 59 57
Fax +375 17 227 53 13
turck@infonet.by
www.turck.by

Belgium
Electromechanical counters:
Crouzet S.A.
Avenue du Roi Albert I, 40
B-1780 Wemmel
Tel. +32 2 462 07 30
Telefax +32 2 461 00 23
www.crouzet.com

Electronic counters
DURANMATIC BV
Jan Valsterweg 50
NL-3315 CV Dordrecht
Tel. +31 78 631 05 99
Telefax +31 78 613 11 33
info@duranmatic.nl
www.duranmatic.nl

Encoders and process products:
Multiprox N.V.
Pb. 71 Lion d'Orweg 12
B-9300 Aalst
Tel.: +32-053 766 566
Fax: +32-053 783 977
mail@multiprox.be
www.multiprox.be

Bulgaria
Sensomat GmbH
D-r Ivan Penakov Str 15-W-4-11
9300 Dobritsch
Tel.: +359-58-603023
Fax: +359-58-603033
info@sensomat.info
www.sensomat.info

Czech Republic
TURCK s.r.o.
Hradec Králové 1151
CZ-500 03 Hradec Králové
Tel. +420-495 51 87 66
Fax +420-495 51 87 67
turck@turck.cz
www.turck.cz

Denmark
hans folsgaard as
Eiby Industriej 30
DK-2600 Glostrup
Tel. +45 4320 8600
Telefax +45 4320 86 37
psh@hf.dk
www.hf.net

Estonia
Standel AS
Kiisa 8
11313 Tallinn
Estonia
Tel (+372) 6 558 180
Fax (+372) 6 558 179
standel@standel.ee
www.standel.ee

Finland
Murrelektronik OY
Koukkukatu 1
FIN-15700 Lahti
Tel. +358 3 882 4000
Telefax +358 3 882 4040
erikki.varpa@murrelektronik.fi
www.murrelektronik.fi

France
Fritz Kübler S.a.r.l.
Compteurs et codeurs industriels
195 rue de Soultz
F-68270 Wittenheim
Tel. +33 3 89 53 45 45
Telefax +33 3 89 53 66 77
E-Mail:
info@kuebler-sarl.com
www.kuebler-sarl.com

Great Britain

Encoders:
OMC Automatic Ltd
Whiteacres, Cambridge Road
Whetstone
Leicestershire LE8 6ZG
Tel. +44 116 284 99 00
Telefax +44 116 284 17 21
info@uk.oem.se
www.oem.co.uk

Belarus
Leuze Mayser electronic Ltd.
Generation Business Park
Barford Rd
St. Neots
Cambs PE19 6YQ, UK
Tel. +44 14 80-408 500
Telefax +44 14 80-403 808
mail@leuzemayer.co.uk
www.leuzemayer.co.uk

Greece
IAS
Industrial Automation Systems
241 EL. Venizelou Ave
17673 Kallithea-Athens
Greece
Tel. +30 21 09 51 02 60
Fax +30 21 09 51 10 48
sales@ias.gr
www.ias.gr

Hungary
Kvalix Automatika Kft.
Kiss Ernő u. 1-3
H-1046 Budapest
Tel. +36 1 272 2242
Fax +36 1 272 2244
info@kvalix.hu
www.kvalix.hu

Ireland
Irish Industrial Components Ltd.
Unit 18/2, Canal Turn,
Clondalkin Industrial Estate
IRL-Clondalkin, Dublin 22
Tel. +351 45 70 012
Telefax +353 1 45 70 609
info@iictd.ie
www.iictd.ie

Iceland
Reykjafell Ltd.
Skipholts 35
IS-125 Reykjavík
Tel. +354 588 6010
Telefax +354 588 6088
reykjafell@reykjafell.is
www.reykjafell.is

Italy
Encoder-Division:
Kübler Italia Srl.
Via Carpera 28
I-20047 Brugherio (MI)
Tel. +39 0 39 28 78 115
Fax +39 0 39 21 42 647
alfredo.angelini@kuebler.it
www.kuebler.it

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I-20090 Segrate (MI)
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Fax +39 0 26 92 16 87
info@masautomazione.it
www.masautomazione.it

Netherlands
Electromechanical counters:
Crouzet BV
Industrieweg 17
NL-2382 NR Zoeterwoude
Tel. +31 71 541 11 21
Telefax +31 71 541 35 74
com-nl@crouzet.com
www.crouzet.com

France
Electronical counters, process devices and encoders:
DURANMATIC BV
Jan Valsterweg 50
NL-3315 CV Dordrecht
Tel. +31 78 631 05 99
Telefax +31 78 613 11 33
info@duranmatic.nl
www.duranmatic.nl

Norway

ELTECO A.S.
Postboks 96
N-3901 Porsgrunn
Whetstone
Leicestershire LE8 6ZG
Tel. +47 35 56 20 70
Fax +47 35 56 20 99
sh@elteco.no
www.elteco.no

Poland
Kubler Polska Sp. z o.o.
ul. Dabrowskiego 441
60-451 Poznan
Poland
Tel.: +48 (0) 61 849 99 02
Fax: +48 (0) 61 849 99 03
sales@kubler.pl
www.kubler.pl

ASTAT sp. z o.o.
ul. Dabrowskiego 441
60-451 Poznan
Poland
Tel. +48 (0) 6 18 48 88 71
Fax +48 (0) 6 18 48 82 76
info@astat.com.pl
www.astat.pl

Electronic Counters and process devices:
IMPOL-1 Sp.j.
ul. Krakowiaków 103
02-255 Warszawa
tel. +48 22 886 56 02
fax +48 22 886 56 04
www.impol-1.pl
impol@impol-1.pl

Encoders:
OEM AUTOMATIC Sp. z o.o.
ul. Parowcowa 6B
02-445 Warszawa
Tel.: +48 22 863 27 22
Fax: +48 22 863 27 24
info@pl.oem.se
www.oemautomatic.com.pl

Portugal
LA2P, Lda.
Rua Teófilo Braga, 156 A
Escrit. F - Edifício S. Domingos
Cabeço do Muro
2785 - 122 S. Domingos de Rana
Tel. +351 21 444 70 70
Fax +351 21 444 70 75
geral@la2p.pt
www.la2p.pt

Romania
Syscom SRL
Calea Plevnei 139, Sector 6
ROM-Bucharest 77131
Tel. +040 21 310 26 78
Fax +040 21 316 91 76
vasile.enache@syscom18.com
www.syscom.ro

Russia
Servotechnica ZAO
22, Vyborgskaya str
125130 Moscow
Tel. +49 57 97 88 56
Fax +49 55 400 04 43
info@servotechnica.ru
www.servotechnica.ru

Serbia and Montenegro
Rapel d.o.o.
Rabina Alkalaja 16
ZEMUN, Beograd
YU-11080
Tel. +381 11 316 229
Fax +381 11 3075 035
info@rapel.co.yu

Slovakia
Balluff Slovakia s. r. o.
Jáná Bottu 4
974 01 Banská Bystrica
Tel. +421 48 414 83 86/7
Fax +421 48 414 83 69
sekretariat@bs-a.sk
www.kuebler.sk

Slovenia
SENZORJI SB d.o.o.
Ulica Kirbiševih 53a
2204 Miklav na Dravskem polju
Slovenia
Tel.: +386 2 6 29 03 00
Fax: +386 2 6 29 03 02
senzorji.sb@siol.net
www.senzorji-sb.si

Europe

European catalogue distributors:

Austria

Farnell InOne GmbH,
Birkenstraße 2
5300 Salzburg/Hallwang
Tel. +43 (0) 662 - 218 06 80
Fax +43 (0) 662 - 218 06 80
verkauf.at@farnellinone.com

RS Components
Albrechtser Straße 11
A-3950 Gründ
Tel. +43 28 52 505
Telefax +43 28 52 53 223
www.rs-components.at

France

Radiospares Composants
Rue Norman King BP 453
F-60031 Beauvais CEDEX
Tel. +33 3 44 10 16 48
Telefax +33 3 44 10 16 44
www.radiospares.fr

Farnell InOne
745 avenue de l'Europe
F-69400 Villefranche sur Saône
Tel. +33 4 74 68 99 99
Fax +33 4 74 68 99 90
www.farnellinone.fr
ventes@farnellinone.fr

Great Britain

RS Components Ltd.
PO Box 99, Corby
Northants NN17 9RS
Tel. +44 15 36 201 234
Telefax +44 15 36 40 56 78
www.rswww.com

Farnell InOne
Canal Road
Leeds LS12 2TU
Tel. +44 87 01 200 200
Fax +44 87 01 200 201
sales@farnellinone.co.uk

Italy

RS Components S.p.A.
Via De Vizzi 93/95
20092, Cinisello Balsamo,
Milano
Tel. +39 02 660 581
Fax +39 02 660 580 51
www.rs-components.it
www.rs.com

Distrelec Italia s.r.l.
C.P. 90
20020 Lainate (Mi)
Tel. +39 02 - 937 551
Fax +39 02 - 937 555
info-it@distrelec.com
www.distrelec.com

Switzerland

Distrelec AG
Grabenstraße 6
CH-8806 Nänikon
Tel. +41-9 44 95 36
Fax +41-9 44 99 88
www.distrelec.com

Farnell InOne
Brandschenkestraße 178
8027 Zürich
Tel. +41 (0) 1 - 204 64 64
Fax +41 (0) 1 - 204 64 54
verkauf.ch@farnellinone.com

Overseas

Argentina

AUMECO S.R.L.
Acassuso 4768
1605 Munro
Prov. de Buenos Aires
Tel. +54 11 47 56 1251
Telefax +54 11 47 62 63 31
aumeco@aumeco-srl.com.ar
www.aumeco-srl.com.ar

Australia

Balluff Leuze Pty. Ltd.
12 Burton Court
Bayswater VIC, 3179
Tel. +61 3 97 20 41 00
Fax +61 3 97 38 26 77
sales@balluff.com.au
www.balluff.com.au

Brazil

Balluff Controles Elétricos Ltda.
Rua Francisco Góes, 25,
Cx. Postal 189
CEP 13280-000 Vinhedo-SP
Tel. +55 19 38 76 99 99
Fax +55 19 38 76 99 90
balluff@balluff.com.br
www.balluff.com.br

Canada

Connectric Systems Inc.
28-207 Edgeley Boulevard, Unit
28
CDN-Concord, Ontario L4K 4B5
Tel. +1 905 669 00 80
Telefax +1 905 669 00 82
solisac@connectric.com
www.connectric.com

Chile

Electronica industrial
El Schädler y Cia. Ltda.
Casilla 189-9
Av. Antonio Varas 1871
Providencia
Santiago
6641545
Tel. +56 274 74 30
Telefax +56 204 93 38
schadler@interactiva.cl

China

Turck (Tianjin) Sensor Co., Ltd.
18.4 th Xinghuazhi Rd., Xiqing
Economic Development Zone
300381 Tianjin.
Tel. +86 22 83 98 81 88
Fax +86 22 83 98 81 11
xiangbin.xuan@turck-china.com

Hong Kong

Po Kwong Group Internat. Ltd.
Rm. 1617-1618,
Parklane Centre
25 Kin Wing St., Tuen Mun, N.T.
Tel. +852 24 23 66 22
Fax +852 24 61 10 02
sales@pokwong.com
www.pokwong.com

Egypt

AES Advanced Electronic Engineering
26, Rabaa Bldgs., Nozha St.
ET-Nasr City, Cairo
Tel. +20 2 418 50 20
Fax +20 2 419 51 29
sales@aee.com.eg
www.aee.com.eg

India

Rajdeep Automation Pvt. Ltd.
Survey 143, 3rd Floor, Sinhaghad
Road,
Vadgaon Dhayari, Pune 411041
Tel: +91 20 24 39 37 55
Fax: +91 20 24 39 37 56
rajdeep@bom5.vsnl.net.in
www.rajdeepindia.com

Indonesia

SUPRA Engineering
Jl. Pecenongan 17 D
RI-10120 Jakarta
Tel. +62 21 345 73 55
Telefax +62 21 345 73 18
astina@centrin.net.id
www.supra.co.id

Israel

Omega Engineering LTD
P.O. BOX 13825
Netanya 42138
Tel. +972-9-767 32 40
Fax. +972-9-767 33 98
info@omega.co.il
www.omega.co.il

Japan

Kasuga Electric Works Ltd
1-33 Shimorenjaku 6-Chome
181-8518 Mitaka, Tokyo
Tel. +81 422 41 72 11
Fax +81 422 41 89 00
info@kasuga.jp
www.kasuga.jp

Lebanon

Elias Ghali & Son's
Sabtieh
Beirut
Tel. +961 38 05 52 4
www.ghali-sy.com
sghali1@cyberia.net.lb

Malaysia

INGERMARK (M) SDN. BHD.
No.29, Jalan KPK 1/8,
Kawasan Perindustrian Kundang,
48020 Rawang,
Selangor Darul Ehsan
Tel.: +60-3-7980 9591
Fax: +60-3-7981 7442
ingmal@tm.net.my

New Zealand

Carrel & Carrel Ltd.
3, Mc Donald St.
Morningside
NZ-Auckland 1003
Tel. +64 9 846 91 24
Telefax +64 9 846 85 55
sales@carrel.co.nz
www.carrel.co.nz

Philippines

Technorand Sales Corporation
Wilshire Annapolis Plaza,
Annapolis Street
San Juan, Metro Manila 1500
Tel. +63 716-5990
Fax +63 716-5986
techno@compass.com.ph

Singapore

Raymond International Pte. Ltd.
Blk 219 Henderson Road #07-04
Henderson Industrial Park
Singapore 159556
Tel. +65 62 76 37 38
Fax +65 62 76 37 39
raymond@raymondcom.com
www.raymondcom.com

South Africa

RET Automation Controls
130 Boeing Road East
ZA-Bedfordview 2008
Tel. +27 11 453 24 68
Telefax +27 11 453 24 06
rodneyt@retauto.co.za
www.retauto.co.za

South Korea

F & B Solution Co.
578, Kwaebop-dong, Sasang-ku
Pusan Industrial Supplies Market 9-116
PUSAN
Tel. +82 51 319 12 30
Fax +82 51 319 12 50
ihbae@fastnbest.com
www.fastnbest.com

Syria

Elias Ghali & Son's
P.O.Box 64
SYR-Homs
Tel. +963 31 48 07 80
Telefax +963 31 22 76 38
s.ghali@scs-net.org

Taiwan, R.O.C.

Counters and process products:
Canaan Electric Corp.
6F-5, No. 63, Sec. 2
Chang An East Road
Taipei
Tel. +886 225 08 23 31
Telefax +886 225 08 47 44

Encoders:

Maintech Technology Co. Ltd.
7F-3, No. 13, Wu-Chun 1 Rd.
Hsin Chuang
Taipei Hsin City 242
Tel. +886 222 99 29 50
Fax +886 222 99 54 13
mtt@mtt.com.tw
www.mtt.com.tw



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Fritz Kübler GmbH
Zähl- und Sensortechnik
P.O BOX 3440
D-78054 Villingen-Schwenningen
Phone +49 (0) 77 20 - 39 03-0
Fax +49 (0) 77 20 - 2 15 64
sales@kuebler.com
www.kuebler.com