



### Model Number

**KCT1-6WR/RS232-V**

### Features

- Counter/Timer/Tachometer
- 6-digit LED indicator, red
- 2 independent pre-select values
- RS 232 interface for parameter assignment
- Status LED indication for output an preselection value
- Display range and preselection range from -199999 up to 999999  
Overflow will be evaluated correctly up to 1 decade
- Programmable functionality as pulse counter, frequency counter, timer or
- Relay output
- Adding/subtracting via 2 separate inputs
- PNP and NPN sensors can be connected
- Protection degree IP65 (front only)

### Technical data

#### General specifications

Pre-selection	2-fold
Data storage	10 <sup>6</sup> storage cycles or 10 years
Programming	keypad-driven menu

#### Functional safety related parameters

MTTF <sub>d</sub>	450 a
Mission Time (T <sub>M</sub> )	10 a
Diagnostic Coverage (DC)	0 %

#### Indicators/operating means

Type	7-segment LED display, red
Number of digits	6
Display value	digit height 8 mm
Pre-selection	switchable
Key interlock	with "high"-level at terminal "KEY"
Display interval	-999999 ... 999999
Decimal point	0 to max 3 fractional digits
Scale factor	0.0001 ... 99.9999
Reset	manually or external

#### Electrical specifications

Operating voltage	U <sub>B</sub>	90 ... 250 V AC
Power consumption	P <sub>0</sub>	max. 7 VA

#### Input

Interface	RS 232 interface for parameter assignment
Counting frequency	20 kHz
Minimum pulse duration	5 ms for reset input
Impedance	approx. 10 kOhm
Voltage	low: 0 ... 4 V DC high: 12 ... 30 V DC
Counting method	adding or subtracting

#### Output

Relay	250 V AC, 0.3 ... 3 A, 1 changeover contact, 1 NO
Sensor supply	14.4 ... 28 V DC, 100 mA
Response time	7 ms

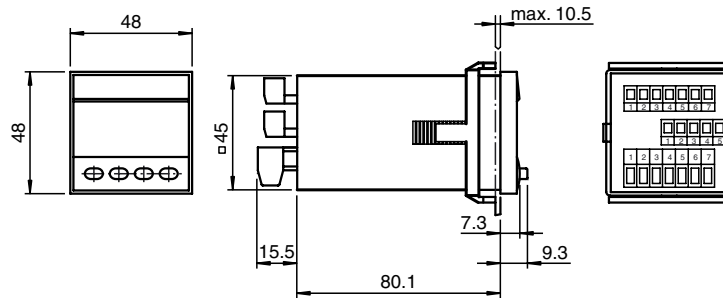
#### Ambient conditions

Ambient temperature	-10 ... 50 °C (14 ... 122 °F)
Storage temperature	-25 ... 70 °C (-13 ... 158 °F)
Relative humidity	≤ 80 % (noncondensing)

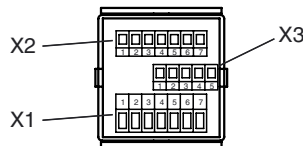
#### Mechanical specifications

Connection	2 plug-in 7-pin screw terminals
Mass	approx. 200 g
Dimensions	48 mm x 48 mm x 106 mm
Mounting	latch fastener (dimension 50.5 mm x 54.5 mm)

## Dimensions



## Electrical connection



## Connection assignment X1

Supply voltage and outputs

Terminal No.	AC version
1	Output 1 relay contact
2	Output 1 relay contact
3	Output 2 relay common contact (C)
4	Output 2 relay normally open contact (NO)
5	Output 2 relay normally closed contact (NC)
6	Power supply 90 ... 250 V AC
7	Power supply 90 ... 250 V AC

**Attention**

In the case of selection of  $\lrcorner$  and  $\llcorner$  (inverted relay control) the connections of terminals 4 and 5 are changed:

Terminal No.	AC version
4	Relay normally closed contact (NC)
5	Relay normally open contact (NO)

## Connection assignment X2

Inputs

Terminal No.	Name	AC version
1	+24 V DC	Sensor supply voltage
2	0 VDC (GND)	Reference voltage
3	INP A	Counter input A
4	INP B	Counter input B
5	RESET	Reset input
6	GATE	Gate input
7	KEY	Input of push-button lock

## Connection assignment X3

Serial interface