



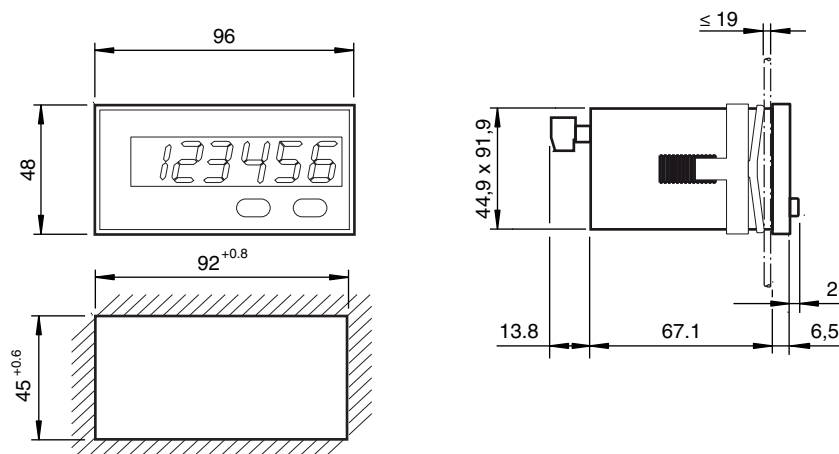
## Timer, Counter, Tachometer KC-LED-96-1T-24VDC

- Counter/Timer/Tachometer
- Extremely bright, large LED indicator
- 1 pre-select value with transistor output
- Adding/subtracting via 2 separate inputs
- PNP and NPN sensors can be connected
- Degree of protection IP65 (front only)

LED display with 24 VDC supply voltage



### Dimensions



### Technical Data

#### General specifications

|               |                    |
|---------------|--------------------|
| Pre-selection | single             |
| Data storage  | EEPROM             |
| Programming   | keypad-driven menu |

#### Functional safety related parameters

|                                |       |
|--------------------------------|-------|
| MTTF <sub>d</sub>              | 330 a |
| Mission Time (T <sub>M</sub> ) | 10 a  |
| Diagnostic Coverage (DC)       | 0 %   |

#### Indicators/operating means

|                  |                                          |
|------------------|------------------------------------------|
| Type             | 6-digit 7-segment LED display, red       |
| Display value    | digit height 14 mm                       |
| Display interval | 0.001 s ... 999999 h                     |
| Decimal point    | 0 to max 3 fractional digits             |
| Accuracy         | Speed indicator: < 0.1%; timer: < 50 ppm |
| Reset            | manually or external                     |

#### Electrical specifications

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

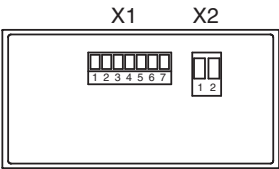
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

|                                          |                |                                                     |
|------------------------------------------|----------------|-----------------------------------------------------|
| Fusing                                   |                | 10 ... 30 V DC: T 0.1 A                             |
| Operating voltage                        | U <sub>B</sub> | 10 ... 30 V DC                                      |
| Operating current                        | I <sub>B</sub> | max. 50 mA                                          |
| Input                                    |                |                                                     |
| Signal voltage                           |                |                                                     |
| High                                     |                | 0.6 x U <sub>e</sub> ... 30 V DC                    |
| Low                                      |                | 0 ... 0.2 x U <sub>e</sub>                          |
| Counting frequency                       |                | 30 Hz / 60 kHz<br>with position display max. 25 kHz |
| Minimum pulse duration                   |                | 5 ms for reset input                                |
| Impedance                                |                | approx. 5 kOhm                                      |
| Counting method                          |                | adding or subtracting                               |
| Compliance with standards and directives |                |                                                     |
| Directive conformity                     |                |                                                     |
| EMC Directive 2004/108/EC                |                | EN 61000-6-2:2005                                   |
| Standard conformity                      |                |                                                     |
| Emitted interference                     |                | DIN EN 55011:2009, Class B                          |
| Ambient conditions                       |                |                                                     |
| Ambient temperature                      |                | -20 ... 65 °C (-4 ... 149 °F) non-condensing        |
| Storage temperature                      |                | -25 ... 70 °C (-13 ... 158 °F)                      |
| Altitude                                 |                | 0 ... 2000 m                                        |
| Mechanical specifications                |                |                                                     |
| Degree of protection                     |                | IP65 (front)                                        |
| Mass                                     |                | approx. 140 g                                       |
| Dimensions                               |                | 96 mm x 48 mm x 89.4 mm                             |

Connection



Connection assignment X2

| Terminal No. | DC version                     |
|--------------|--------------------------------|
| 1            | Power supply<br>0 V DC (GND)   |
| 2            | Power supply<br>10 ... 30 V DC |

Connection assignment X1

| Terminal No. | DC version                   |
|--------------|------------------------------|
| 1            | Optocoupler collector output |
| 2            | Optocoupler emitter output   |
| 3            | SET                          |
| 4            | INP B                        |
| 5            | INP A                        |
| 6            | n.c                          |
| 7            | n.c.                         |

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