



### Model Number

**KC-LCD-24-24VDC**

LCD display with 24 V<sub>DC</sub> supply voltage

### Features

- PNP and NPN sensors can be connected
- Easy-to-read 7-digit LCD display
- Degree of protection IP65 (front only)

## Technical data

### General specifications

|              |        |
|--------------|--------|
| Data storage | EEPROM |
|--------------|--------|

### Indicators/operating means

|                  |                              |
|------------------|------------------------------|
| Type             | 7-digit 7-segment LC display |
| Display value    | digit height 8 mm            |
| Display interval | 0 ... 9999999                |
| Scale factor     | 1 ... 4095 (Factory setting) |
| Reset            | manually or external         |

### Electrical specifications

|                   |                |                |
|-------------------|----------------|----------------|
| Operating voltage | U <sub>B</sub> | 10 ... 30 V DC |
| Operating current | I <sub>B</sub> | max. 25 mA     |

### Inputs

|                 |   |
|-----------------|---|
| Voltage         | low: 0 ... 2 V DC<br>high: 3.5 ... 30 V DC<br>Switching threshold approx. 2.7 V |
| Impedance       | 10 kΩ   |
| Switch-on delay | 500 ms  |

### Input 1

|                 |  |
|-----------------|--|
| Input type      | Counter input PNP: fast input, PNP-switching |
| Input frequency | max. 8 kHz                                   |

### Input 2

|                 |  |
|-----------------|--|
| Input type      | Counter input NPN: slow input, NPN-switching |
| Input frequency | max. 48 Hz                                   |

### Input 3

|            |   |
|------------|---|
| Input type | Activation input reset button: static NPN input |
|------------|---|

### Input 4

|            |   |
|------------|---|
| Input type | Reset input: flank-triggered NPN input (min. 20 ms) |
|------------|---|

### Ambient conditions

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature | -20 ... 65 °C (-4 ... 149 °F)  |
| Storage temperature | -25 ... 75 °C (-13 ... 167 °F) |

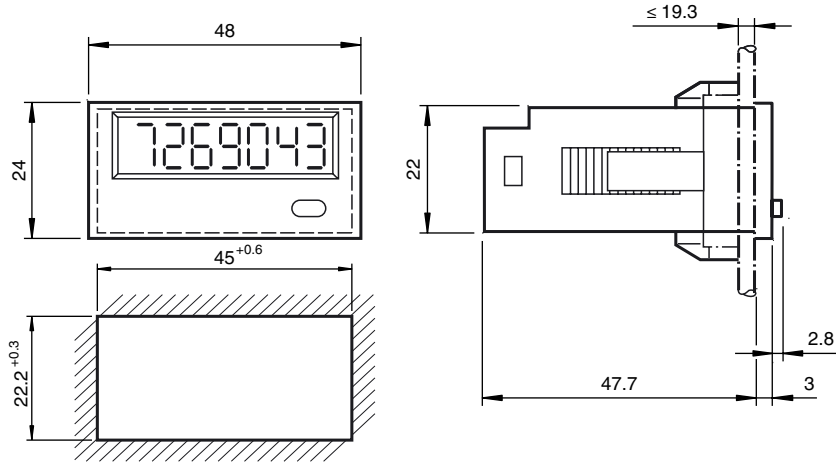
### Mechanical specifications

|                      |  |
|----------------------|--|
| Degree of protection | IP65 (front)<br>IP20 (Connection side) |
| Mass                 | approx. 40 g                           |
| Dimensions           | 48 mm x 24 mm x 53.5 mm                |

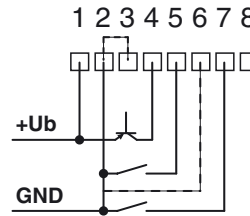
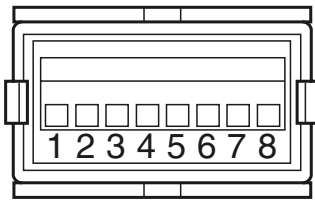
### Compliance with standards and directives

|                             |   |
|-----------------------------|---|
| Directive conformity        |   |
| EMC Directive 2004/108/EC   | EN 61000-6-2:2005   |
| Standard conformity         |   |
| Emitted interference        | DIN EN 55011:2009, Class B  |
| Mech. capacity              | EN 60068-2-6:2008<br>10 ... 55 Hz / 1 mm / XYZ<br>30 min in each direction                                  |
| Shock and impact resistance | device in operation: 100 G / XYZ; EN 60068-2-27:1995<br>device in operation: 10 G / XYZ; EN 60068-2-29:1995 |

Dimensions



Electrical connection



Function and terminal assignment

| Terminal | Text on device | Function            |
|----------|----------------|---------------------|
| 1        | 10 - 30 V DC   | Supply voltage +Ub  |
| 2        | GND            | 0 V DC              |
| 3        | GND            | 0 V DC              |
| 4        | INP PNP        | fast counting input |
| 5        | INP NPN        | slow counting input |
| 6        | RESET          | Activation input    |
|          | ENABLE         | Reset               |
| 7        | RESET          | Reset input         |
| 8        | n.c.           | not used            |