

# Timer, Counter, Tachometer

## KCT-6ST-C

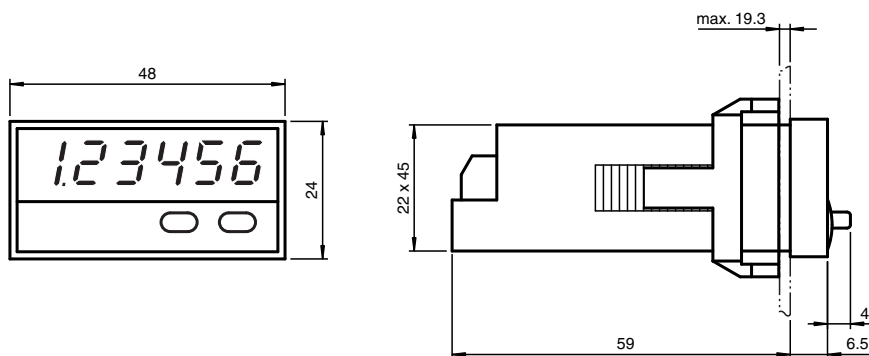


- Counter frequency up to 20 kHz
- LED indicator, red
- 6 decade devices
- Operation via keypad
- Two counter inputs
- Fixing with plug-in frame for easy installation
- Connection via screw terminals
- Manual or external reset
- PNP and NPN sensors can be connected
- Shock resistance in accordance with DIN EN 60068-2-27
- Vibration resistance in accordance with DIN EN 60068-2-6

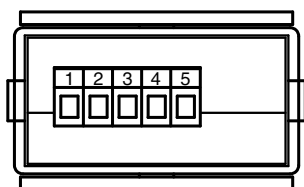
Counter



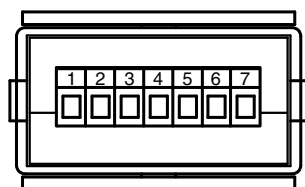
## Dimensions



KCT-6S-C



KCT-6ST-C



## Technical Data

### General specifications

|               |                                                    |
|---------------|----------------------------------------------------|
| Pre-selection | single                                             |
| Data storage  | 10 <sup>6</sup> storage cycles or 10 years, EEPROM |
| Programming   | keypad-driven menu                                 |

### Functional safety related parameters

|                                |        |
|--------------------------------|--------|
| MTTF <sub>d</sub>              | 1500 a |
| Mission Time (T <sub>M</sub> ) | 10 a   |
| Diagnostic Coverage (DC)       | 0 %    |

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

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 **PEPPERL+FUCHS**

## Technical Data

|                                   |       |                                                                                |
|-----------------------------------|-------|--------------------------------------------------------------------------------|
| <b>Indicators/operating means</b> |       |                                                                                |
| Type                              |       | 7-segment LED display, red                                                     |
| Number of digits                  |       | 6                                                                              |
| Display value                     |       | digit height 8 mm                                                              |
| Pre-selection                     |       | active at counter value $\leq 0$                                               |
| Key interlock                     |       | -                                                                              |
| Display interval                  |       | -199999 ... 999999 with suppression of leading zeros                           |
| Decimal point                     |       | 0 to max 3 fractional digits                                                   |
| Scale factor                      |       | 0.0001 ... 99.9999                                                             |
| Reset                             |       | manually or external                                                           |
| <b>Electrical specifications</b>  |       |                                                                                |
| Operating voltage                 | $U_B$ | 10 ... 30 V DC                                                                 |
| Power consumption                 | $P_0$ | 1.5 W                                                                          |
| <b>Input</b>                      |       |                                                                                |
| Counting frequency                |       | 30 Hz / 20 kHz                                                                 |
| Impedance                         |       | 10 kOhm                                                                        |
| Voltage                           |       | low: 0 V DC ... 0.2 x supply voltage; high: 0.6 x supply voltage ... 30 V DC   |
| Counting method                   |       | adding or subtracting                                                          |
| <b>Output</b>                     |       |                                                                                |
| Optocoupler                       |       | Semiconductor output 30 V, max. 10 mA                                          |
| <b>Ambient conditions</b>         |       |                                                                                |
| Ambient temperature               |       | -10 ... 50 °C (14 ... 122 °F)                                                  |
| Storage temperature               |       | -25 ... 70 °C (-13 ... 158 °F)                                                 |
| Relative humidity                 |       | $\leq 80$ % (noncondensing)                                                    |
| <b>Mechanical specifications</b>  |       |                                                                                |
| Connection                        |       | 7-pin screw terminal ,<br>max. core cross-section 0.34 ... 1.5 mm <sup>2</sup> |
| Mass                              |       | 48 g                                                                           |
| Dimensions                        |       | 48 mm x 24 mm x 65 mm                                                          |
| Mounting                          |       | latch fastener                                                                 |

## Connection

