

# Counter/Timer/Tachometer

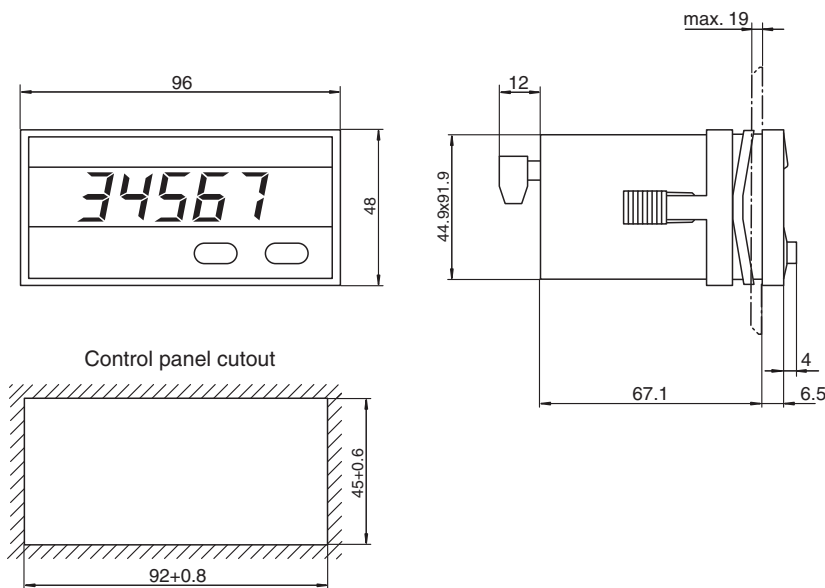
## KCT2-6ST-V



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



### Dimensions



### 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>                    | 330 a                                              |
| Mission Time (T <sub>M</sub> )       | 10 a                                               |
| Diagnostic Coverage (DC)             | 0 %                                                |
| Indicators/operating means           |                                                    |

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

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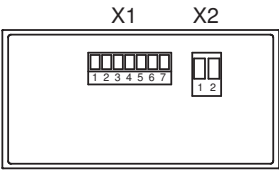
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## Technical Data

|                                  |                            |                                                                                          |
|----------------------------------|----------------------------|------------------------------------------------------------------------------------------|
| Type                             | 7-segment LED display, red |                                                                                          |
| Number of digits                 |                            | 6                                                                                        |
| Display value                    |                            | digit height 14 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                | $U_B$                      | 90 ... 260 V AC                                                                          |
| Power consumption                | $P_0$                      | max. 6 VA                                                                                |
| <b>Input</b>                     |                            |                                                                                          |
| Counting frequency               |                            | 30 Hz / 20 kHz (max. 11 kHz when counting with phase discriminator)                      |
| Minimum pulse duration           |                            | 5 ms for reset input                                                                     |
| Impedance                        |                            | 10 kOhm                                                                                  |
| Voltage                          |                            | low: 0 ... 4 V DC ; high: 12 ... 30 V DC                                                 |
| Counting method                  |                            | adding or subtracting                                                                    |
| <b>Output</b>                    |                            |                                                                                          |
| Sensor supply                    |                            | 24 V DC $\pm 15\%$ / 100 mA                                                              |
| Response time                    |                            | 6 ms                                                                                     |
| Optocoupler                      |                            | NPN, open collector and open emitter<br>30 V / 15 mA                                     |
| <b>Ambient conditions</b>        |                            |                                                                                          |
| Ambient temperature              |                            | -20 ... 65 °C (-4 ... 149 °F)                                                            |
| Storage temperature              |                            | -25 ... 70 °C (-13 ... 158 °F)                                                           |
| Relative humidity                |                            | $\leq 80\%$ (noncondensing)                                                              |
| <b>Mechanical specifications</b> |                            |                                                                                          |
| Connection                       |                            | 2-pin and 7-pin plug-in connection terminals, core cross-section $\leq 1.5 \text{ mm}^2$ |
| Mass                             |                            | approx. 150 g                                                                            |
| Dimensions                       |                            | 96 mm x 48 mm x 90 mm                                                                    |
| Mounting                         |                            | latch fastener (dimension 48 mm x 100 mm)                                                |

Connection



Connection assignment X2

| Terminal No. | AC version                      |
|--------------|---------------------------------|
| 1            | Power supply<br>90 ... 260 V AC |
| 2            | Power supply<br>90 ... 260 V AC |

Connection assignment X1

| Terminal No. | AC version                   |
|--------------|------------------------------|
| 1            | Optocoupler collector output |
| 2            | Optocoupler emitter output   |
| 3            | SET                          |
| 4            | INP B                        |
| 5            | INP A                        |
| 6            | GND                          |
| 7            | +24 V out                    |

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