



Model Number

KCT-6ST-C

Counter

Features

- 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

Technical data

General specifications

Pre-selection	single
Data storage	10 ⁶ storage cycles or 10 years, EEPROM
Programming	keypad-driven menu

Functional safety related parameters

MTTF _d	1500 a
Mission Time (T _M)	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	active at counter value ≤ 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

Electrical specifications

Operating voltage	U _B	10 ... 30 V DC
Power consumption	P ₀	1.5 W

Input

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

Output

Optocoupler	Semiconductor output 30 V, max. 10 mA
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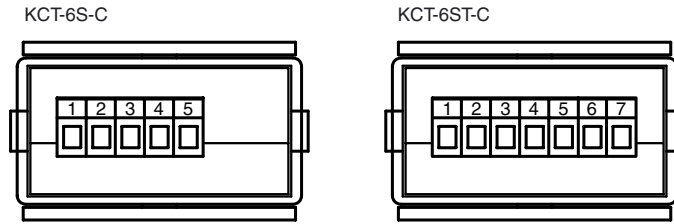
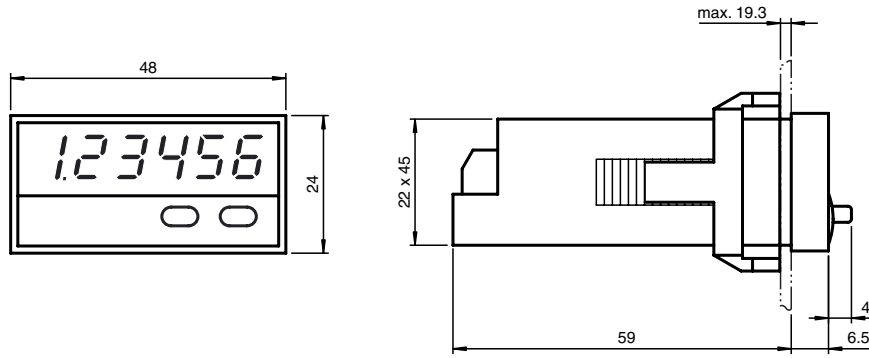
Ambient conditions

Ambient temperature	-10 ... 50 °C (263 ... 323 K)
Storage temperature	-25 ... 70 °C (248 ... 343 K)
Relative humidity	≤ 80 % (non-condensing)

Mechanical specifications

Connection	7-pin screw terminal , max. core cross-section 0.34 ... 1.5 mm ²
Mass	48 g
Dimensions	48 mm x 24 mm x 65 mm
Mounting	latch fastener

Dimensions



Electrical connection

