Information
Electronic

Counter $|$\begin{tabular}{l}
Tachometer \\
\hline Digital Timer \\

\hline | Programmable |
| :--- |
| Cam | \\

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\end{tabular}

## Features

## Easy-to-see Green Display

The numerical display is an easy-to-see green display.
(Green LED with 8 mm high characters)

## Counting Input can be Prohibited.

By applying input to the counting input inhibit terminal, counting input can be interrupted to stop counting.

## Retentive Memory without Battery Backup

An EEPROM is used for memory storage and a battery that does not require maintenance is used.

## A Wide Range of Supply Voltage

Since the KCX- $\square$ T has a wide input voltage range of 4.5 to 30 VDC , it can support TTL level to the input source of a 24 V DC system. Moreover, one model can cover the supply voltages of 90 to 132 V AC and 180 to 264 V AC , thus can be used for a wide range of supply voltages.

## Latch Functions

By adding input to the latch input terminal, the discrete value at that time can be latched and displayed. When the latch input is removed, the current discrete value is displayed.

## Manual Reset can be Prohibited.

The functions of the front manual reset button can be prohibited to prevent misoperation.

## Zero Suppression Function

Unnecessary 0 (zeros) of high-order digits are not displayed.

## Built-in Power Source for Sensors

Since the counter has a 12 V DC, 50 mA built-in power source for sensors, it can be connected to proximity sensors, photoelectronic sensors, and rotary encoders.

Equipped with a Dust Cover as a Standard Feature
Equipped with dustproof, waterproof cover as a standard feature. The reset button can be operated from outside the cover.


## For Both Embedded and Surface-Mount Installation

In the case of embedded installation, the counter can be attached to the panel simply by tightening the dedicated mounting bracket from the back side. In the case of surface-mount installation, the counter can be mounted to and removed from the F terminal (terminal block) by one-touch operation.

:lifi PLC
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## KCX- $\square \mathbf{T}$

## Operation

## Operation

- Counting is enabled 0.2 sec after the power is turned on.
- When the front manual reset button is pressed or a voltage of 4.5 to 30 V is applied to external reset terminal (7), the previous memorized discrete value is reset to 0 . At this time, the zero suppression function works and Os from the second digit and higher are not displayed.
When using the KCX- $\square \mathrm{T}$ at not more than 10 Hz ( 10 counts per second), if a counting input signal of a width of 50 ms or more is applied, or when using the KCX- $\square$ T at not more than 1 kHz (not more than 5 kHz for KCX6 T , not more than 10 Hz for KCX-8T), if a counting input signal of a width of $0.5 \mathrm{~ms}(0.1 \mathrm{~ms}$ for KCX-6T, $50 \mu \mathrm{~s}$ for KCX-8T) or more is applied, the numerical display increases and the total number of input signals is displayed. Input terminal (2) is used for connections of not more than 10 Hz and input terminal (3) is used for connections of not more than 1 kHz (5 kHz and 10 kHz ).
- If an input of 4.5 to 30 V is applied to counting inhibit input terminal (5) during counting, the counting input can be interrupted to stop counting.
- During counting, if an input of 4.5 to 30 V is applied to latch input terminal (10), the discrete value at that time is memorized and displayed. When the latch input is removed, the current discrete value is displayed.


## 《Operation chart》



When using the latch for the contact signal, only low speed input can be used as the counting input.

2. In the case of no-contact input signals

The counting input can be either low speed input or high speed input.


## How to Prohibit Manual Reset


2. In the case of no-contact input signals The counting input can be either low speed input or high speed input.


Connection of a Counting Prohibit Input

1. In the case of contact input signals


## Connection of a Latched Input

1. In the case of contact input signals

The counting input can be selected from low-speed input and high-speed input.


When used as shown in the figure below, the voltage and current that flow through the contact point are around 2 mA . Therefore, the use of the contact point for minute electric current improves reliability. Since the contact point of the electromagnetic switch is designed for large current and high voltage, it is not suitable for use for contact input of the counter.


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