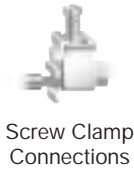


# Multifunction Timer CT-MKE timetron® Solid State Output

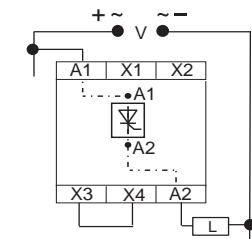


Screw Clamp Connections

- 4 Functions
- 0.8 A Solid State Output
- Universal Voltage 24 ... 240 V AC/DC
- Knob Adjustable 0.1... 300 s in 2 Ranges
- Function and time range selection by wiring external jumpers
- 1 LED Indicator

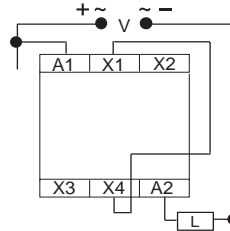
### Description

The CT-MKE is a totally solid state timer. It is connected in series with the load, contactor, or relay coil. Functions and time ranges are programmed via external jumper wires. The time delay is adjustable via an onboard knurled thumb wheel. Time delays from 0.1 ... 300 s in 2 ranges are available with 1% repeat accuracy. The red LED glows during timing.

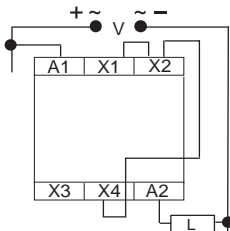


Delay On Make  
(0.1 ... 10 s)

Time Delay Range 0.1 ... 10 s (as shown)  
Remove Jumper X3 to X4 for 3 ... 300 s



Interval  
(3 ... 300 s)



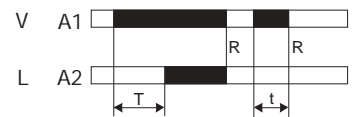
Recycle/Flasher  
(3 ... 300 s)

ON Time First (as shown)  
OFF Time First - Remove Jumper X1 to X2

- Approvals:

## Operation

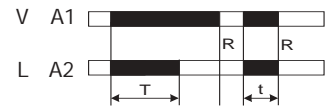
Delay on Make



### Delay on Make

No external jumpers required. Upon application of input voltage, the time delay begins. The output is de-energized before and during the time delay. At the end of the time delay, the output energizes and remains energized until input voltage is removed. **Reset:** Removing input voltage resets the time delay and output.

Interval

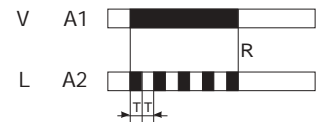


### Interval

External connection X1-X4 required. Upon application of input voltage, the time delay begins. The output energizes during the time delay. At the end of time delay, the output de-energizes and remains de-energized as long as input voltage is applied.

**Reset:** Removing input voltage resets the time delay and the output.

Recycle/Flasher, "ON" Time First



### Recycle/Flasher (ON Time First)

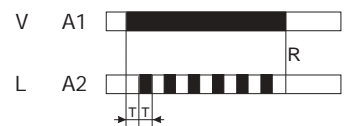
External connection X1-X4 and X1-X2 required. Upon application of input voltage, the output energizes and the ON time begins. At the end of the ON time, the output de-energizes and the OFF time begins. At the end of the OFF time, the output energizes and the cycle repeats as long as input voltage is applied.

### Recycle/Flasher (OFF Time First)

External connection X2-X4 required. Upon application of input voltage, the OFF time is first followed by the ON time as described above. (See diagram below).

**Recycle/Flasher Reset:** Removing input voltage resets the output and time delays, and returns the sequence to the first delay.

Recycle/Flasher, "OFF" Time First



## Legend

- V = Voltage
- L = Load
- T = Complete Time Delay
- t = Incomplete Time Delay
- R = Reset
- = OFF, open, de-energized
- = ON, closed, energized

Time Range	Input Voltage	Part Number
0.1 ... 10 s 3 ... 300 s	24 ... 240 V AC/DC	1SVR 550 019 R 0000

### Technical Data

Input	
Voltage	24 ... 240 V AC/DC
Tolerance	-15% ... +10%
Frequency	50 ... 60 Hz
Voltage Drop	(A1/A2) ≤ 3 V
Power Consumption/Leakage Current	≤ 2 mA (24 ... 60 V AC/DC) ≤ 8 mA (60 ... 240 V AC/DC)
Time Delay	
Ranges	0.1 ... 10 s    3 ... 300 s
Recycle Time	≤ 100 ms
Repeat Accuracy	≤ 1.0 %
Time Delay vs Input Voltage Tolerance	≤ 0.5%
Time Delay vs Temperature	≤ 0.1%/°C
Display	
Single LED	Red LED glows during timing
Output	
Load Current	20 mA ... 0.8 A at 20°C
Load Current Derating	10 mA/°C
Surge Current	≤ 20 A for t ≤ 20 ms
Maximum Cable Length	
Between MKE & Connected Load	at 24 V AC = 220 m/22 nF
at 50/60 Hz and a cable capacity of 100 pF/m:	at 42 V AC = 100 m/10 nF
	at 60 V AC = 65 m/6.5 nF
	at 110 V AC = 50 m/5.0 nF
	at 240 V AC = 22 m/2.2 nF
General	
Operating/Storage Temperature	-20°C ... +60°C / -40°C ... +85°C
Mounting on DIN rail (EN 50022)	Snap-on mounting/Screw mounting with adaptor
Wire Size (stranded with wire end ferrule)	2 x 16 AWG (2 x 1.5 mm <sup>2</sup> )
Weight	≅ 2.8 oz (80 g)
Dimensions (W x H x D)	0.89 x 3.07 x 3.09 in. (22.5 x 78 x 78.5 mm)
	See accessory pages for a Dimensional View
Accessories	
	See Accessories page