Electronic Timer - Series Micon® 175

- Multi Function: 10 Different (Non Signal & Signal based) Modes
- Wide Voltage range for both AC & DC
- Wide Time range: 0.1s 100h
- · LED Indications for Power and Relay status
- Independent settings for both ON Time & OFF Time
- Low Power Consumption



Ordering Information

Cat. No.	Description
1CMDT0	12 - 240 VAC/DC, Multi Function Timer (10 Modes), 1 C/O (RAL 7016 Casing)
1CQDT9	12 - 240 VAC/DC, Multi Function Timer (10 Modes), 1 C/O - 16A (RAL 7016 Casing)
1CJDT0	12 - 240 VAC/DC, Asymmetric Timer, 1 C/O (RAL 7016 Casing)

^{*}Note: For RAL 7035 Casing, replace 0/9 by B in Cat. No.

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Cat. No.			1CMDT0	1CQDT9	1CJDT0	
Paramet	ers		·			
Timer Description			Multi Function Timer		Asymmetric Timer	
Modes			 Signal ON Delay Cyclic ON/OFF Cyclic OFF/ON Signal OFF Delay Signal OFF/ON Accumulative Delay on Signal Impulse ON/OFF Leading Edge Impulse Trailing Edge Impulse Leading Edge Bi-stable 		Asymmetric ON-OFF, Asymmetric OFF-ON	
Derived	d Modes		ON Delay, Interval		NA	
Supply	Voltage (中)		12 - 240 VAC/DC			
Supply	Variation		-15% to +10% (of中)			
Freque	•		50/60 Hz			
	Consumption (N	Лах.)	2 VA			
Timing Range			0.1s to 100h			
Reset Time			200 ms (Max)			
Setting Accuracy Repeat Accuracy			± 5% of Full scale ± 1%			
	Relay Output		1 C/O			
Output	Contact Rating		8A @ 240 VAC / 5A @ 24 VDC (Resistive)	16A @ 240 VAC / 16A @ 24 VDC (Resistive)	8A @ 240 VAC / 5A @ 24 VDC (Resistive)	
	Electrical Life		1X10 ⁵			
	Mechanical Life		5X10 ⁶			
Utilization Category AC - 15 DC - 13			Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A			
Operating Temperature Storage Temperature		•	-10°C to +60°C -15°C to +70°C			
LED Indication					Green LED → Power ON Amber LED → Relay ON	
Enclosure			Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)		(in mm)	18 X 85 X 65			
Weight (unpacked)			70 g			
Mounting			DIN Rail			
Certification			C C C LUSTED US ROOTE Compliant			
D	of Protection		IP 20 for Terminals, IP 30 for Enclosi	ure ID 40 for Front side		

EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Voltage Dips & Interruptions (DC)	IEC 61000-4-29
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

Environmental

Cold Heat	IEC 60068-2-1
Dry Heat	IEC 60068-2-2
Vibration	IEC 60068-2-6
Repetitive Shock	IEC 60068-2-27
Non-Repetitive Shock	IEC 60068-2-27

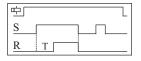
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FUNCTIONAL DIAGRAMS FOR 1CMDT0

SIGNAL ON DELAY [stn]

On application of input signal, the preset delay time period starts. On completion of the preset time, the output is switched ON and remains ON till the input signal is



CYCLIC ON/OFF [cnf]

On application of supply voltage, the output is initially switched ON for the preset time duration (T) after which it is switched OFF

for the same time duration (T). This cycle continues till the power supply is present.

中

CYCLIC OFF/ON [cfn]

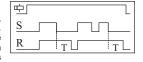
On application of supply voltage, the output is initially switched OFF for the preset time duration (T) after which it is switched ON for the same time duration (T). This cycle continues till the power supply is present.



R TOFF TON TOFF

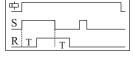
SIGNAL OFF DELAY [sf]

On application of input signal to the timer, the output is immediately switched ON. When the input signal is switched OFF, the preset time delay period starts. On completion of the time period the output is switched OFF.



SIGNAL OFF/ON [sfn]

On application of input signal to the timer, the preset delay time period (T) starts. On completion of the time preset time, the output is switched ON When the input signal is switched OFF, again the preset



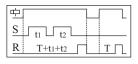
time delay period (T) starts. On completion of the time period the output is switched OFF.

由: Supply Voltage, S: Input Signal, R: Relay Output

T: Preset Time, TON: Preset ON Time, TOFF: Preset OFF Time

ACCUMULATIVE DELAY On SIGNAL [san]

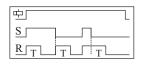
On application of supply voltage, the preset delay time period starts. If input signal is applied during this period, the preset time stops and resumes only when



the input signal is removed. On completion of the preset time, the output is switched ON.

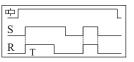
IMPULSE ON/OFF [infl

On application or removal of input signal to the timer, the output is immediately switched ON for the preset time duration (T). If the state of the input signal is changed during the preset time, the output does not change state only the time is reset.



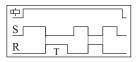
LEADING EDGE IMPULSE [iL]

When input signal is applied to the timer the output is immediately switched ON. The output remains ON for the preset time duration (T) after which it is switched OFF. If the input signal is removed during the preset time, the output is immediately



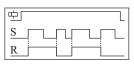
TRAILING EDGE IMPULSE [it]

When the input signal to the timer is removed, the output is immediately switched ON for the preset time duration (T) after which it is switched OFF. If the input signal is applied during the preset time, the output is immediately switched OFF.



LEADING EDGE BISTABLE [sbi]

On application of input signal to the timer, the output is switched ON and remains ON even after the input signal is removed. On subsequent application of input signal, the output keeps on changing its state.

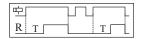


DERIVED MODES

Select 'Signal ON Delay' Mode and short the connection between A1-B1 before power ON OR Select 'Accumulative Delay ON Signal' Mode and keep the connection between A1-B1 open.

ON DELAY

When supply power is applied to the timer, the preset delay time period starts. On completion of the preset time, the output is switched ON and remains ON till the input supply is present.



Select mode, "Leading Edge Impulse" and short the connection between A1 & B1.

INTERVAL

When supply power is applied to the timer, the output is instantly switched ON. On completion of the preset time, the output is switched OFF

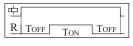


FUNCTIONAL DIAGRAMS FOR 1CJDT0

MODE A

ASYMMETRIC OFF-ON

On application of supply voltage, the output is initially switched OFF for the preset 'OFF' time duration (T) after which it



is switched ON for the preset 'ON' time duration (T). This cycle repeats and continues till the supply is present. The ON time & OFF time are set independently.

MODE B

ASYMMETRIC ON-OFF

On application of supply voltage, the output is initially switched ON for the preset 'ON' time duration (T) after which it is

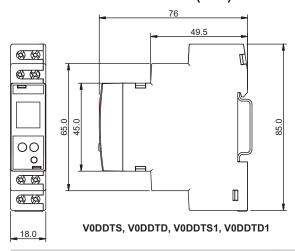


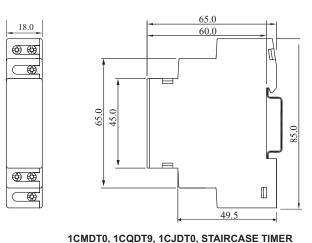
switched OFF for the preset 'OFF' time duration (T). This cycle repeats and continues till the supply is present. The ON time & OFF time are set independently.

Note: Refer page number 27 for Connection Diagram

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MOUNTING DIMENSIONS (mm)





 $17.5 (\pm 0.5)$ 0 90 8 \bigcirc 00 58.5

110DT4, 120DT4, 150DT4, 11SDT0, 12SDT0 110DT8, 120DT8, 11BDT4, 12BDT4, 15BDT4

TERMINAL TORQUE & CAPACITY

Ø 3.5 mm4.0mm	0.60 N.m (6 Lb.in)
	1 x 4.0 mm ² Solid/Stranded Wire
AWG	1 x 20 to 10

V0DDTS, V0DDTD, V0DDTS1, V0DDTD1

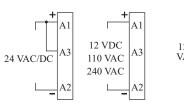
Ø 3.5 mm4.0mm	0.60 N.m (6 Lb.in)
	1 x 4.0 mm ² Solid/Stranded Wire
AWG	1 x 20 to 10

1CMDT0, 1CQ DT9, 1CJDT0, STAIRCASE TIMER

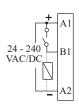
Ø 3.5 mm5.0mm	0.80 N.m (7.1 Lb.in)
	2 x 2.5 mm ² Solid/Stranded Wire
AWG	2 x 20 to 14

110DT4, 120DT4, 150DT4, 11SDT0, 12SDT0 110DT8, 120DT8, 11BDT4, 12BDT4, 15BDT4

CONNECTION DIAGRAM



12 - 240 2 В1 VAC/DC

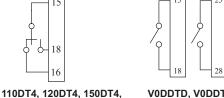


110DT4, 120DT4, 150DT4, 11SDT0, 12SDT0, 11ODT8, 120DT8, 11BDT4, 12BDT4, 15BDT4

1CMDT0, 1CQDT9, 1CJDT0

VODDTS, VODDTD, V0DDTS1, V0DDTD1



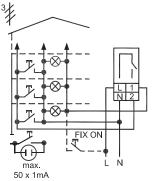


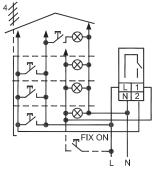
MODE 'A' 16 Ь_{В1} MODE 'B'

11SDT0, 12SDT0, 11ODT8, 12ODT8, 11BDT4, 12BDT4, 15BDT4,1CMDT0. 1CJDT0, 1CQDT9, V0DDTS, V0DDTS1

V0DDTD, V0DDTD1, STAIRCASE TIMER

1CJDT0





3 Wire rising main without Loft illumination

4 Wire rising main without connection for Loft illumination

STAIRCASE TIMER