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

Cat. No.			1CJDT0	1CMDT0
Parameters				
Timer Description			**Asymmetric Timer**	**Multi Function Timer**
Modes			1) Asymmetric ON-OFF, 2) Asymmetric OFF-ON	1) Signal ON Delay 2) Cyclic ON/OFF 3) Cyclic OFF/ON 4) Signal OFF Delay 5) Signal OFF/ON 6) Accumulative Delay on Signal 7) Impulse ON/OFF 8) Leading Edge Impulse 9) Trailing Edge Impulse 10) Leading Edge Bi-stable
Derived Modes			N A	ON Delay, Interval
Supply Voltage (⏚)			12 - 240 VAC/DC	
Supply Variation			-15% to +10% (of ⏚)	
Frequency			50/60 Hz	
Power Consumption (Max.)			2 VA	
Timing Range			0.1s to 100h	
Reset Time			200 ms (Max)	
Setting Accuracy Repeat Accuracy			± 5% of Full scale ± 1%	
Output	Relay Output		1 C/O	1 C/O
	Contact Rating		8A @ 240 VAC / 5A @ 24 VDC (Resistive)	8A @ 240 VAC / 5A @ 24 VDC (Resistive)
	Electrical Life		$1X10^5$	
	Mechanical Life		$5X10^6$	
Utilization Category		AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A	
		DC - 13	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	Green LED → Power ON, Yellow LED → Relay ON
Enclosure			Flame Retardant UL94-V0	
Dimension (W x H x D) (in mm)			18 X 85 X 65	
Weight (unpacked)			70 g	
Mounting			Base / DIN Rail	
Certification			CE RoHS Compliant	
Degree of Protection			IP 20 for Terminals, IP 40 for Enclosure	
EMI / EMC				
Harmonic Current Emissions			IEC 61000-3-2	Ed. 3.0 (2005-11) Class A
ESD			IEC 61000-4-2	Ed. 1.2 (2001-04) Level II
Radiated Susceptibilty			IEC 61000-4-3	Ed. 3.0 (2006-02) Level III
Electrical Fast Transients			IEC 61000-4-4	Ed. 2.0 (2004-07) Level IV
Surges			IEC 61000-4-5	Ed. 2.0 (2005-11) Level III
Conducted Susceptibilty			IEC 61000-4-6	Ed. 2.2 (2006-05) Level III
Voltage Dips & Interruptions (AC)			IEC 61000-4-11	Ed. 2.0 (2004-03) All 7 Levels
Voltage Dips & Interruptions (DC)			IEC 61000-4-29	Ed. 1.0 (2000-08) All 5 Levels
Conducted Emission			CISPR 14-1	Ed. 5.0 (2005-11) Class B
Radiated Emission			CISPR 14-1	Ed. 5.0 (2005-11) Class A
Environmental				
Cold Heat			IEC 60068-2-1	Ed. 6.0 (2007-03)
Dry Heat			IEC 60068-2-2	Ed. 5.0 (2007-07)
Vibration			IEC 60068-2-6	Ed. 7.0 (2007-12) 5g
Repetitive Shock			IEC 60068-2-27	Ed. 4.0 (2008-02) 40g, 6ms
Non-Repetitive Shock			IEC 60068-2-27	Ed. 4.0 (2008-02) 30g, 15ms

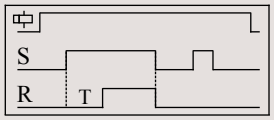
Codigo NDU 05040012GI

ORDERING INFORMATION

Cat. No.	Description
1CMDT0	12 - 240 VAC/DC, Multi Function Timer (10 Modes), 1 C/O (RAL 7016 Casing)
1CJDT0	12 - 240 VAC/DC, Asymmetric Timer, 1 C/O(RAL 7016 Casing)
1CMDTB	12 - 240 VAC/DC, Multi Function Timer (10 Modes), 1 C/O (RAL 7035 Casing)
1CJDTB	12 - 240 VAC/DC, Asymmetric Timer, 1 C/O (RAL 7035 Casing)

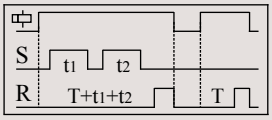
FUNCTIONAL DIAGRAMS FOR 1CMDT0

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 present

ACCUMULATIVE DELAY On SIGNAL [san]

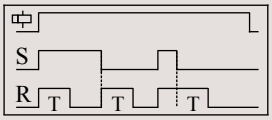


On application of supply voltage, the preset delay time period starts. If input signal is applied during this period, the preset time stops and resumes only when the input signal is removed. On completion of the preset time, the output is switched ON

CYCLIC ON/OFF [cnf]

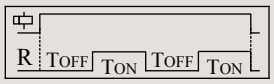
On application of supply voltage, the output is initially switched ON for the preset time duration (T) after which it is switched OFF for the same time duration (T).
This cycle continues till the power supply is present

IMPULSE ON/OFF [inf]



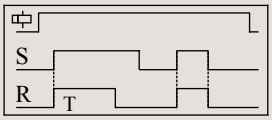
On application or removal of input signal to the timer, the output is immediately switched ON for the preset time duration (T). If the state of the input signal is changed during the preset time, the output does not change state only the time is reset.

CYCLIC OFF/ON [cfn]



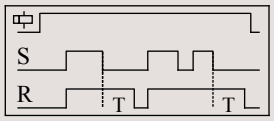
On application of supply voltage, the output is initially switched OFF for the preset time duration (T) after which it is switched ON for the same time duration (T). This cycle continues till the power supply is present

LEADING EDGE IMPULSE [iL]



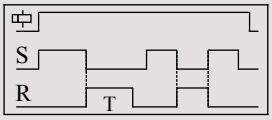
When input signal is applied to the timer the output is immediately switched ON. The output remains ON for the preset time duration (T) after which it is switched OFF. If the input signal is removed during the preset time, the output is immediately switched OFF.

SIGNAL OFF DELAY [sf]



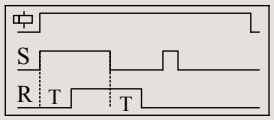
On application of input signal to the timer, the output is immediately switched ON. When the input signal is switched OFF, the preset time delay period starts. On completion of the time period the output is switched OFF

TRAILING EDGE IMPULSE [it]



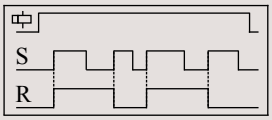
When the input signal to the timer is removed, the output is immediately switched ON for the preset time duration (T) after which it is switched OFF. If the input signal is applied during the preset time, the output is immediately switched OFF

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

LEADING EDGE BISTABLE [sbi]

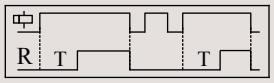


On application of input signal to the timer, the output is switched ON and remains ON even after the input signal is removed. On subsequent application of input signal, the output keeps on changing its state

DERIVED MODES

Select mode, 'Signal ON Delay' and short the connection between A1 - B1 before power ON
Select mode, 'Accumulative Delay ON Signal' and keep the connection between A1 - B1 open

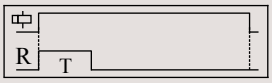
ON DELAY



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



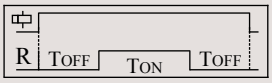
When supply power is applied to the timer, the output is instantly switched ON. On completion of the preset time, the output is switched OFF

FUNCTIONAL DIAGRAMS FOR 1CJDT0

ASYMMETRIC ON-OFF

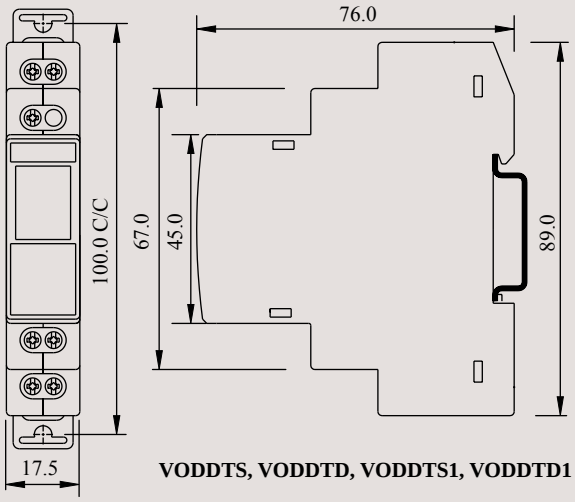
On application of supply voltage, the output is initially switched ON for the preset 'ON' time duration (T) after which it is switched OFF for the preset 'OFF' time duration (T). This cycle repeats and continues till the supply is present.
The ON time & OFF time are set independently.

ASYMMETRIC OFF-ON

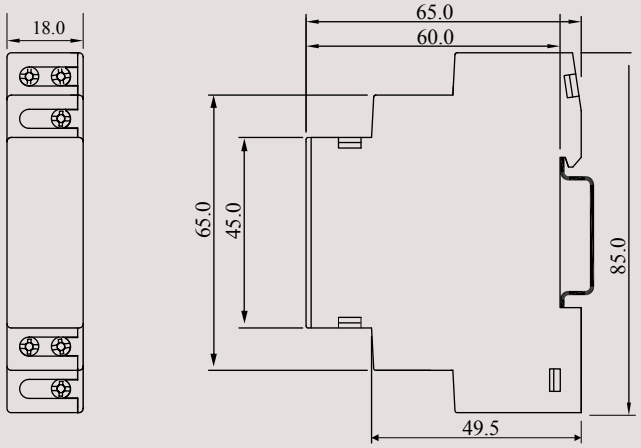


On application of supply voltage, the output is initially switched OFF for the preset 'OFF' time duration (T) after which it is switched ON for the preset 'ON' time duration (T). This cycle repeats and continues till the supply is present.
The ON time & OFF time are set independently.

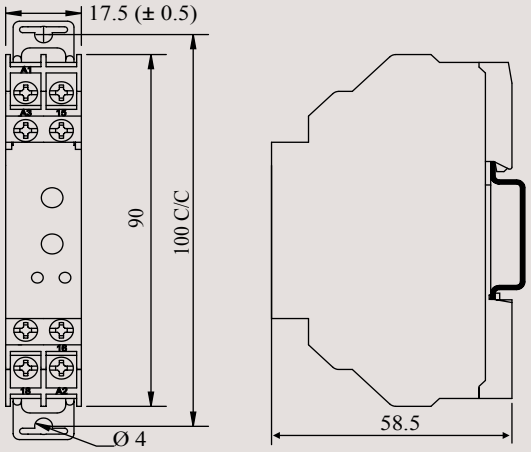
MOUNTING DIMENSIONS (mm)



VODDTS, VODDTD, VODDTS1, VODDTD1



1CMDT0, 1CJDT0, STAIRCASE TIMER



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

TERMINAL TORQUE & CAPACITY

Ø 3.5 mm	Torque - 0.40 N.m (3.5 Lb.in) Terminal screw - M2.5
	Solid Wire - 1 X 0.3...2.5 mm²
AWG	1 X 22 to 14

VODDTS, VODDTD, VODDTS1, VODDTD1

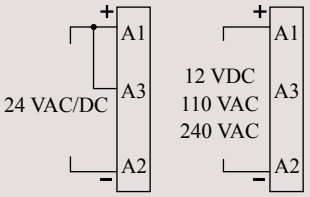
Ø 3.5...4.0 mm	Torque - 0.6 N.m (6 Lb.in) Terminal screw - M3
	Solid Wire - 1 X 1...4 mm²
AWG	1 X 18 to 10

1CMDT0, 1 CJDT0, STAIRCASE TIMER

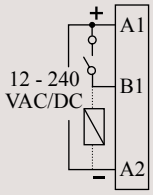
Ø 3.5...5.0 mm	Torque - 1.1 N.m (10 Lb.in) Terminal screw - M3.5
	Solid Wire - 2 X 0.2...2.5 mm²
AWG	1 X 24 to 10

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

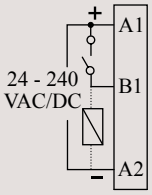
CONNECTION DIAGRAM



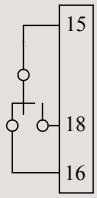
110DT4, 120DT4, 150DT4, 11SDT0, 12SDT0, 11ODT8, 12ODT8, 11BDT4, 12BDT4, 15BDT4



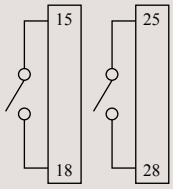
1CMDT0, 1CMDTB, 1CJDT0, 1CJDTB



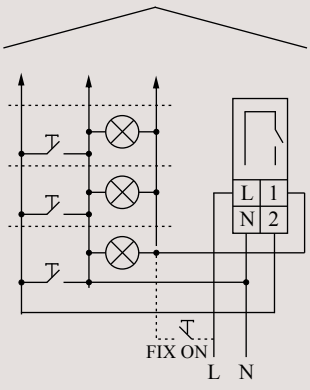
VODDTS, VODDTD, VODDTS1, VODDTD1



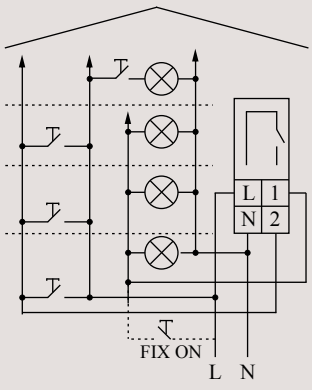
110DT4, 120DT4, 150DT4, 11SDT0, 12SDT0, 11ODT8, 12ODT8, 11BDT4, 12BDT4, 15BDT4,1CMDT0. 1CJDT0, VODDTS, VODDTS1



VODDTD, VODDTD1, STAIRCASE TIMER



3 Wire Configuration



4 Wire Configuration

STAIRCASE TIMER