- Compact 17.5mm Wide
- Integrated Dual Voltage
- Functions: ON Delay, Star Delta, One Shot
- Wide Time Range: 0.3s 30h
- LED Indications for Power and Relay status
- Low Power Consumption



Ordering Information

Cat. No.	Description
110DT4	110 VAC / 24 VAC/DC, ON Delay Timer, 1 C/O
12ODT4	240 VAC / 24 VAC/DC, ON Delay Timer, 1 C/O
15ODT4	12 VDC, ON Delay Timer, 1 C/O
11RDT4	110 VAC / 24 VAC/DC, Signal OFF Delay Timer, 1 C/O
12RDT4	240 VAC / 24 VAC/DC, Signal OFF Delay Timer, 1 C/O
15DDT4	12 VDC, Signal OFF Delay Timer, 1 C/O
11BDT4	110 VAC / 24 VAC/DC, One Shot Timer, 1 C/O
12BDT4	240 VAC / 24 VAC/DC, One Shot Timer, 1 C/O
15BDT4	12 VDC, One Shot Timer, 1 C/O



Cat. No.			12ODT4	12RDT4	
Parameters					
Timer	Description		ON Delay Timer	Signal OFF Delay Timer	
Mode			ON Delay	Signal OFF Delay	
Functional Diagram			R T	S T T T	
	/ Voltage (中)		240 VAC / 24 VAC/DC	240 VAC / 24 VAC/DC	
Supply	/ Variation		- 20% to +10% (of中)	- 15% to +10% (of中)	
Freque			50/60 Hz	50/60 Hz	
	Consumption	(Max.)	8 VA	8 VA	
	Ranges		0.3s to 30h	0.3s to 30h	
Reset			100 ms (Max.) 150 ms (Max.)		
	g Accuracy It Accuracy		± 5% of Full scale ± 1%		
	Relay Outpu		1 C/O		
Outpu	Contact Rati	•	5A @ 240 VAC / 28 VDC (Resistive) 5A @ 240 VAC / 3A @ 30 VDC (Resistive)		
•	Electrical Life		1X10 ⁵		
	Mechanical I		5X10 ⁶		
Utiliza	tion 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		
	ting Temperature		-10°C to +55°C -20°C to +70°C		
			95% (Rh)		
Humidity (Non Condensing) LED Indication		crising)	Green LED → Power ON, Red LED → Relay ON		
Enclosure			Flame Retardant UL94-V0		
Dimension (W x H x D) (in mm)		D) (in mm)	17.5 X 90 X 58.5		
Weight (unpacked) Approx.			65 g		
Mounting			Base / DIN Rail		
Certification			CE Roots Compliant		
Degre	e of Protection	ı	IP 20 for Terminals, IP 40 for Enclosure		

EMI / EMC	
Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3

Electrical Fast Transients

IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5

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



Ordering Information

Cat. No.	Description
11SDT0	110 VAC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta)
12SDT0	240 VAC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta)
14SDT1S	240-415V AC. Star Delta Timer. 1C/O (Star) + 1C/O (Delta). 3-30 Sec.



Cat.	No.		12SDT0	
Param	eters			
Timer [Description		Star Delta Timer	
Mode			Star Delta	
Functional Diagram				
Supply	Voltage (中)		240 VAC	
Supply	Variation		- 20% to +10% (of 中)	
Freque	ency		50 Hz	
Power	Consumption	(Max.)	8 VA	
Timing	Ranges		3s to 120s	
Pause	Pause Time 60 ms		60 ms	
Reset	Time		150 ms (Max.)	
	Accuracy t Accuracy		± 5% of Full scale ± 1%	
	Relay Outpu	t	Star - 1 'NO', Delta - 1 'NO'	
Output	Contact Rati	ng	5A @ 240 VAC / 3A @ 30 VDC (Resistive)	
Output	Electrical Life	e	1X10⁵	
	Mechanical I	_ife	5X10 ⁶	
Utilizat	ion 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	
	ing Temperatu e Temperature		-10°C to +55°C -20°C to +70°C	
Humidity (Non Condensing)		nsing)	95% (Rh)	
LED Indication			Red LED 1 \rightarrow ' \downarrow ' ON, Red LED 2 \rightarrow ' Δ ' ON	
Enclosure			Flame Retardant UL94-V0	
Dimension (W x H x D) (in mm) 17.5) (in mm)	17.5 X 90 X 58.5	
Weight (unpacked)			60 g	
Mounting			Base / DIN Rail	
Certification			CE Vicats Compilant	
Degree of Protection IP 20 for Terminals, IP 40 for Enclosur			IP 20 for Terminals, IP 40 for Enclosure	

EMI / EMC

IEC 61000-3-2
IEC 61000-4-2
IEC 61000-4-3
IEC 61000-4-4
IEC 61000-4-5
IEC 61000-4-6
IEC 61000-4-11
IEC 61000-4-29
CISPR 14-1
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

- 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)
1CJDT0	12 - 240 VAC/DC, Asymmetric Timer, 1 C/O (RAL 7016 Casing)

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



Cat. No.			1CJDT0	1CMDT0	
Paramet	ers				
Timer Description			Asymmetric Timer	Multi Function Timer	
Modes			Asymmetric ON-OFF, 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		NA	ON Delay, Interval	
Supply	Voltage (ф)		12 - 240 VAC/DC		
Supply	Variation		-15% to +10% (of中)		
Frequer	ncy		50/60 Hz		
Power (Consumption (Max.)	2 VA		
Timing I	Range		0.1s to 100h		
Reset T	īme		200 ms (Max)		
Setting Accuracy Repeat Accuracy			± 5% of Full scale ± 1%		
	Relay Outpu	t	1 C/O	1 C/O	
Output	Contact Rati	ng	8A @ 240 VAC / 5A @ 24 VDC (Resistive)	8A @ 240 VAC / 5A @ 24 VDC (Resistive)	
Output	Electrical Life	е	1X10 ⁵		
	Mechanical I	_ife	5X10 ⁶		
l Itilizatio	on 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 (le): 2.0/0.22/0.1 A		
Operating Temperature Storage Temperature		re	-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 O		
Enclosure			Flame Retardant UL94-V0		
Dimension (W x H x D) (in mm)) (in mm)	18 X 85 X 65		
Weight (unpacked)			70 g		
Mountin	ng		DIN Rail		
Certification			C C C LISTED C COMPOSITION		
Degree	of Protection		IP 20 for Terminals, IP 40 for Enclosure		

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

Electronic Timer - Series Micon[®] 175



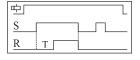
FUNCTIONAL DIAGRAMS FOR 1CMDT0

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

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

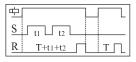
SIGNAL ON DELAY [stn]

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



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]

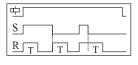
On application of supply voltage, the output is initially switched ON for the preset time duration (T) after which it is switched OFF



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

IMPULSE ON/OFF [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.



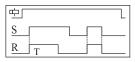
CYCLIC OFF/ON [cfn]

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.



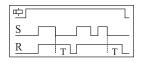
LEADING EDGE IMPULSE [iL]

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



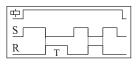
SIGNAL OFF DELAY [sf]

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.



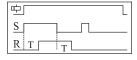
TRAILING EDGE IMPULSE [it]

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]

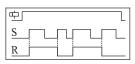
On application of input signal to the timer, the preset delay time period (T) starts. On completion of the time preset time, the output is switched ON When the input signal is switched OFF, again the preset



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.

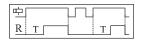


DERIVED MODES

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

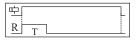
When supply power is applied to the timer, the preset delay time period starts. On completion of the preset time, the output is switched ON and remains ON till the input supply is present.



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

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

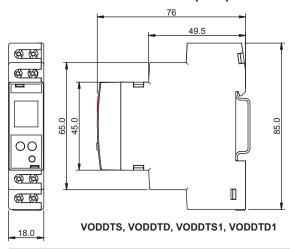
On application of supply voltage, the output is initially switched ON for the preset 'ON' time duration (T) after which it is

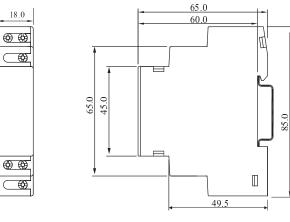


switched OFF for the preset 'OFF' time duration (T). This cycle repeats and continues till the supply is present. The ON time & OFF time are set independently.

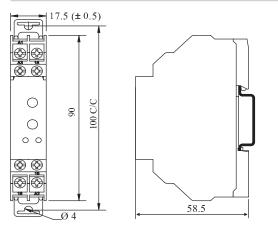
Note: Refer page number 25 for Connection Diagram

MOUNTING DIMENSIONS (mm)





1CMDT0, 1CJDT0, STAIRCASE TIMER



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

VODDTS, VODDTD, VODDTS1, VODDTD1

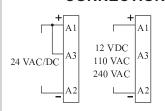
Ø 3.5 mm4.0mm	0.60 N.m (6 Lb.in)
	1 x 4.0 mm ² Solid/Stranded Wire
AWG	1 x 20 to 10

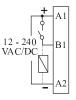
1CMDT0, 1 CJDT0, STAIRCASE TIMER

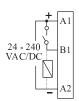
Ø 3.5 mm5.0mm	0.80 N.m (7.1 Lb.in)
	2 x 2.5 mm ² Solid/Stranded Wire
AWG	2 x 20 to 14

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

CONNECTION DIAGRAM







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

1CMDT0, 1CMDTB, 1CJDTB

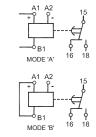
VODDTS, VODDTD, VODDTS1, VODDTD1



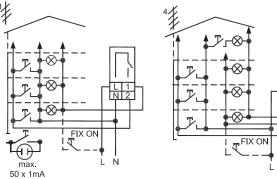




VODDTD, VODDTD1, STAIRCASE TIMER



1CJDT0



3 Wire rising main without Loft illumination 4 Wire rising main without connection for Loft illumination

STAIRCASE TIMER