



## TIMERS

Digital Timer *Eliso*® 17.5 mm

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Programmable Digital Timer *Eliso*®

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Electronic Timer - Series Staircase

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Electronic Timer - Series Micon® 175

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Electronic Timer - Series Micon® 225

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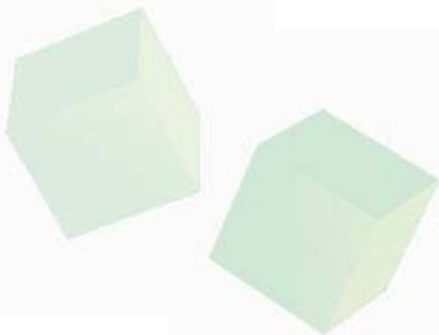
Motor Control Timers

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Synchronous Timer - Series EM 1000

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Product Selection Chart: Timers



# Digital Timer *Eliro*®

- Compact 17.5 mm Wide
- Multi Function: (8 or 18) Non Signal & Signal based functions
- Multi-Voltage: 24 - 240 VAC/DC
- Wide Timing Range: 0.1s to 999 Hr
- 3 Digit LCD for Preset time and Run time
- Option to select Up/Down counting
- Tamper proof with key lock feature






## Ordering Information

Cat. No.	Description
V0DDTS	24 - 240 VAC/DC, Multi Function Digital Timer - Eliro (8 Functions), 1 C/O
V0DDTD	24 - 240 VAC/DC, Multi Function Digital Timer - Eliro (8 Functions), 2 NO
V0DDTS1	24 - 240 VAC/DC, Multi Function Digital Timer - Eliro (18 Functions), 1 C/O
V0DDTD1	24 - 240 VAC/DC, Multi Function Digital Timer - Eliro (18 Functions), 2 NO

# Digital Timer *Eliso*®



Cat. No.		V0DDTS	V0DDTD	V0DDTS1	V0DDTD1
Parameters					
Timer Description		Multi Function Digital Timer			
Functions		1) ON Delay 2) Cyclic OFF/ON 3) Cyclic ON/OFF 4) Signal ON/OFF 5) Signal OFF Delay 6) Interval 7) Signal OFF/ON 8) One Shot Output		1) ON Delay 2) Cyclic OFF/ON 3) Cyclic ON/OFF 4) Impulse on Energizing 5) Accumulative Delay on Signal 6) Accumulative Delay on Inverted Signal 7) Accumulative Impulse on Signal 8) Signal ON Delay 9) Inverted Signal ON Delay 10) Signal OFF Delay 11) Impulse ON/OFF 12) Signal OFF/ON 13) Leading Edge Impulse 1 14) Leading Edge Impulse 2 15) Trailing Edge Impulse 1 16) Trailing Edge Impulse 2 17) Delayed Impulse 18) Inverted Signal ON Delay	
Supply Voltage (Φ)		24 - 240 VAC/DC			
Supply Variation		-15% to +10% (of Φ)			
Frequency		50/60 Hz			
Power Consumption (Max.)		0.5 VA (@ 24/48 VAC), 4 VA (@ 110 to 265 VAC/DC)			
Timing Range		0.1s to 999h			
Reset Time		200 ms (Max.)			
Repeat Accuracy		± 0.5%			
Output	Relay Output	1 C/O	2 NO	1 C/O	2 NO
	Contact Rating	8A @ 240 VAC / 24 VDC (Resistive)			
	Electrical Life	1x10 <sup>5</sup>			
	Mechanical Life	2x10 <sup>7</sup>			
Utilization Category	AC - 15	Rated Voltage (Ue): 125/240 V, Rated Current (Ie): 3/1.5 A			
	DC - 13	Rated Voltage (Ue): 125/250 V, Rated Current (Ie): 2/0.22/0.1 A			
Operating Temperature		-10° C to +55° C			
Storage Temperature		-20° C to +65° C			
Humidity (Non Condensing)		95% (Rh)			
LED Indication		Red LED →Relay ON			
Enclosure		Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)		18 X 85 X 76			
Weight (unpacked) Approx.		85 g			
Mounting		DIN Rail			
Certification		  			
Degree of Protection		IP 20 for Terminals, IP 30 for Enclosure, IP 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

# Digital Timer *Eliso*<sup>®</sup>



## FUNCTIONAL DIAGRAMS FOR V0DDTS & V0DDTD

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

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

### ON DELAY (A)

On application of supply voltage, the preset time duration (T) starts. On completion of the preset time, the output is switched ON and remains ON till the supply voltage is present



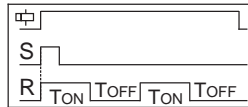
### CYCLIC OFF/ON {OFF Start, (Sym, Asym)} (b)

On application of supply voltage, the output is initially switched OFF for the preset 'OFF' time duration (TOFF) after which it is switched ON for the preset 'ON' time duration (TON). This cycle repeats and continues till the supply is present.



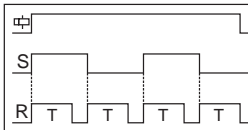
### CYCLIC ON/OFF {ON Start, (Sym, Asym)} (C)

On application of supply voltage, the output is initially switched ON for the preset 'ON' time duration (TON) after which it is switched OFF for the preset 'OFF' time duration (TOFF). This cycle repeats and continues till the supply is present.



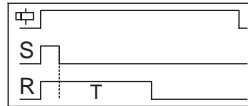
### SIGNAL ON/OFF (d)

The output relay is turned ON for Preset Time (T) whenever the Signal(S) is applied or removed.



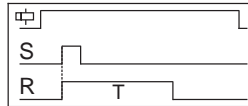
### SIGNAL OFF DELAY (E)

On application of supply voltage and input signal, the output is switched ON. When the signal is removed the preset time duration commences & the output is switched OFF at the end of the time duration.



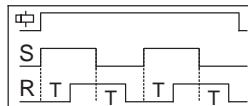
### INTERVAL (F)

When supply power is applied to the timer and on application of input signal the output is immediately switched ON. The output remains ON for the preset time duration (T) after which it is switched OFF.



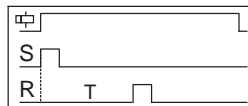
### SIGNAL OFF / ON (G)

When Signal (S) is applied or removed, the relay changes its state after Timer Duration (T)



### ONE SHOT OUTPUT (H)

When Signal (S) is applied, the Timer Duration (T) starts. At the end of Timer duration (T), the relay gets energized for approximately 1 sec.(Refer Note : 2)



- Note:
1. For Power-On operation, connect the terminal B1 to A1 permanently.
  2. If the Signal (S) changes during the Timer Duration (T), it does not change the output relay but re-triggering takes places and the Timer Duration is extended.