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



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Cat.	No.	V0DDTS	VODDTD	V0DDTS1	V0DDTD1	
Parameters Timer Description Functions		Multi Function Digital Timer 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		 ON Delay Cyclic OFF/ON Cyclic ON/OFF Impulse on Energizing Accumulative Delay on Signal Accumulative Delay on Inverted Signal Accumulative Impulse on Signal Signal ON Delay Inverted Signal ON Delay Signal OFF Delay Impulse ON/OFF Signal OFF/ON Leading Edge Impulse 1 Leading Edge Impulse 1 Trailing Edge Impulse 1 Trailing Edge Impulse 1 Trailing Edge Impulse 1 Inverted Signal ON Delay 		
Supply Voltage (中)		24 - 240 VAC/DC				
Supply Variation		-15% to +10% (of 中)				
Frequency Bower Consumption (Max.)		50/60 Hz 0.5 VA (@ 24/48 VAC), 4 VA (@ 110 to 265 VAC/DC)				
Power Consumption (Max.) Timing Range		0.3 VA (@ 24/48 VAC), 4 0.1s to 999h	VA (@ 110 to 203 VAC/DC)			
Reset Time		200 ms (Max.)				
	Accuracy	± 0.5%				
	Relay Output	1 C/O	2 NO	1 C/O	2 NO	
0.4.4	Contact Rating	8A @ 240 VAC / 24 VDC				
Output	Electrical Life	1x10 ⁵	()			
	Mechanical Life	$2x10^{7}$				
Utilization Category AC - 15 DC - 13		Rated Voltage (Ue): 125/240 V, Rated Current (Ie): 3/1.5 A Rated Voltage (Ue): 125/250 V, Rated Current (Ie): 2/0.22/0.1 A				
Operating Temperature		-10° C to $+55^{\circ}$ C				
	Temperature	-20° C to +65° C				
Humidity (Non Condensing)		95% (Rh)				
LED Indication		Red LED \rightarrow 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				
-		II 20 101 Terminais, II 30	Tor Eliciosure			
ESD Radiate Electric Surges Conduc Voltage Voltage Conduc	d Susceptibility al Fast Transients ted Susceptibility Dips & Interruptions (AC) Dips & Interruptions (DC) ted Emission d Emission	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				
Cold He Dry He Vibratic Repetiti	at	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-27				
ORD	ERING INFORMATI	ON				
Cat. No. V0DDTS V0DDTD V0DDTS1		Description 24 - 240 VAC/DC, Multi Function Digital Timer - Eliro (8 Functions), 1 C/O 24 - 240 VAC/DC, Multi Function Digital Timer - Eliro (8 Functions), 2 NO 24 - 240 VAC/DC, Multi Function Digital Timer - Eliro (18 Functions), 1 C/O				
V0DD1	DI	24 - 240 VAC/DC, Multi H	Function Digital Timer - Eliro	o (18 Functions), 2 NO		

Digital Timer Eliro®



FUNCTIONAL DIAGRAMS FOR V0DDTS1 & V0DDTD1

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ON DELAY [0]

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)} [1]



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)} [2] On application of supply voltage, the output is

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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.

IMPULSE ON ENERGIZING [3]

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

ACCUMULATIVE DELAY ON SIGNAL [4]

On application of supply voltage, the preset timing duration commences. When input signal is applied, the timing pauses and resumes only when the input signal is removed.

The output is switched ON at the end of the preset time duration (T)

ACCUMULATIVE DELAY **ON INVERTED SIGNAL [5]**

On application of supply voltage and input signal, the preset timing duration commences. When the signal is removed the timing pauses and resumes when the signal is applied. The output is switched ON at the end of the preset time duration (T).

ACCUMULATIVE IMPULSE ON SIGNAL [6]

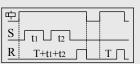
On application of supply voltage the output is switched ON & the preset timing duration commences. When the signal is applied the timing pauses and resumes when the signal is

SIGNAL ON DELAY [7]

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

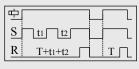
INVERTED SIGNAL ON DELAY [8]

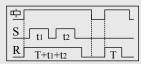
On application of supply voltage, the preset time duration (T) starts. When input signal is applied, the timing pauses & resumes only when the signal is removed. On completion of the preset time, the output is switched ON

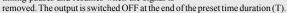


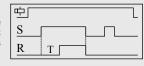
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: Supply Voltage, S: Input Signal, R: Relay Output T: Preset Time, TON: Preset ON Time, TOFF: Preset OFF Time

SIGNAL OFF DELAY [9]

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.

IMPULSE ON/OFF [A]

On application or removal of input signal, the output is switched ON & the preset time duration (T) starts. On completion of the time duration the output is switched OFF. When timing commences, changing the state of the input signal resets the time.

SIGNAL OFF/ON [b] On application of input signal, the preset delay time period (T) starts. On completion of the preset time, the output is switched ON. On removal of input signal, the preset time period starts again and the output is switched ON when the preset time duration is complete.

LEADING EDGE IMPULSE1 [C]

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. If the input signal is removed during the preset time, the output remains unaffected.

LEADING EDGE IMPULSE2 [d]

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. If the input signal is removed during the preset time, the output is immediately switched OFF.

TRAILING EDGE IMPULSE1 [E]

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.

TRAILING EDGE IMPULSE2 [F]

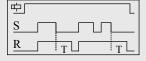
When the input signal to the timer is removed, the output is immediately switched ON for the preset time duration (T) after which it is switched OFF. If the input signal is applied during the preset time, the output remains unaffected.

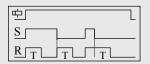
DELAYED IMPULSE [G]

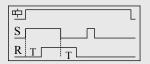
On application of input signal, the preset 'OFF' time duration (TOFF) starts. the output is switched ON at the end of the preset 'OFF' time duration & the preset 'ON' time duration commences irrespective of signal level and remains ON till the completion of 'TON'

INVERTED SIGNAL ON DELAY-TYPE 2 [H]

Timing starts only upon signal 'S' transition high to low. During timing or after completion of Time (i.e. relay on), any signal transition is ignored. To reset the timer supply has to be interrupted.







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