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



Cat. No.	VODDTS	VODDTD	V0DDTS1	V0DDTD1		
Parameters						
Timer Description	Multi Function Digital Tim	er				
Functions	 ON Delay Cyclic OFF/ON Cyclic ON/OFF Signal ON/OFF Signal OFF Delay Interval Signal OFF/ON One Shot Output 		 ON Delay Cyclic OFF/ON Cyclic ON/OFF Impulse on Energizing Accumulative Delay o Accumulative Impulse Signal ON Delay Inverted Signal ON De Signal OFF Delay Impulse ON/OFF Signal OFF/ON Leading Edge Impulse Trailing Edge Impulse 	g n Signal n Inverted Signal e on Signal elay el 2 2 1 2 2 1 2 2 1 2 2 1 2 2		
Supply Voltage (中)	24 - 240 VAC/DC					
Supply Variation	-15% to $+10%$ (of $rest$)					
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%					
Relay Output	1 C/O	2 NO	1 C/O	2 NO		
Output Contact Rating	8A @ 240 VAC / 24 VDC ((Resistive)				
Electrical Life	$1 x 10^{5}$					
Mechanical Life	$2x10^{7}$					
Utilization Category AC - 15	Rated Voltage (Ue): 125/24	0 V, Rated Current (Ie): 3/1.	5 A			
DC - 13	Rated Voltage (Ue): 125/25	0 V, Rated Current (Ie): 2/0.2	22/0.1 A			
Operating Temperature Storage Temperature	-10° C to +55° C -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				
EMI / EMC Harmonic Current Emissions ESD Radiated Susceptibility Electrical Fast Transients Surges Conducted Susceptibility Voltage Dips & Interruptions (AC) Voltage Dips & Interruptions (DC) Conducted Emission Radiated 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					
Environmental Cold Heat Dry Heat Vibration Repetitive Shock Non-Repetitive Shock	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-27					
ORDERING INFORMATI	ON					
Cat. No.	Description					
V0DDTS	24 - 240 VAC/DC, Multi Fi	unction 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 Fi	unction Digital Timer - Eliro	(18 Functions), 1 C/O			
V0DDTD1	24 - 240 VAC/DC, Multi Fi	unction Digital Timer - Eliro	(18 Functions), 2 NO			





FUNCTIONAL DIAGRAMS FOR V0DDTS & V0DDTD

➡ : Supply Voltage, S: Input Signal, R: Relay OutputT: 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 $\left(T\right)$







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)

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S		
R	Т	

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.

