Electronic Timer - Series Micon® 225 Signal Based Multi - Function

- Multi-function with Signal Start and Supply Start. 16 Timing Functions selected by DIP switch.
- Two independent relay outputs with either both relays timed or one timed and one instantaneous.
- Wide Input Signal & Supply range 24-240V AC/DC.
- Wide Timing Range 0.1 s to 120 days.
- High timing Accuracy.
- LED indicators for Power Supply & Relay Status.
- 22.5mm DIN Mount Housing.



Cat. No.		2A8DT6			
Parame	ters				
Timer Description		Multi-function with Signal Start and Supply Start			
Supply Voltage (中)		24-240 VAC / DC			
Supply Variation		- 20% to +10% (of 中)			
Frequency		50/60 Hz			
Power Consumption (Max.)		3 VA			
Initiate Time		100 ms (Max.)			
Reset Time		200 ms (Max.)			
Signal Low Range (B1L-A2) Voltage High Range (B1H-A2)		24-60V AC/DC 85-265V AC, 100-265V DC			
Signal Sensing Time		For AC Signals: 50 ms Max. For DC Signals: 20 ms Max.			
Signal stabilization Delay		100 ms (Applicable at Power ON Only)			
Setting Accuracy Repeat Accuracy		± 5% of Full scale ± 1%			
Kepeat F	Relay Output	1 C/O (Delayed) & 1 C/O (Configurable as either Delayed or Instant)			
	Contact Rating	5A @ 240 VAC / 28 VDC (Resistive)			
Outmut	Contact Material	-			
Output		AgNi 1x10 ⁵			
	Electrical Life				
Set Time	Mechanical Life	1x10 ⁷ 0.1 seconds to 120 Days			
Function	` /	Refer page no. 21 & 22			
	lication on front panel	Green LED ON: Power ON, Amber LED ON: Relay ON for Delayed contact			
Mounting		Base / DIN Rail			
Max. Operating Altitude		2000 m			
Housing		Flame retardant (UL 94-V0) -10°C to +60°C			
Operating Temperature					
Storage Temperature		-20°C to +70°C			
Humidity (Non Condensing)		95% (Rh) Crean LED. S Payor ON Pad LED. S Palay ON			
LED Indication		Green LED → Power ON, Red LED → Relay ON			
Enclosure Dimension (W.v. H.v. D) (in mm)		Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)		22.5 X 83 X 100.5			
Weight (unpacked)		130 g II			
Pollution Degree		_			
Certification		C C CUDUS Compliant			
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 Conducted Suggestibility		IEC 61000-4-5 IEC 61000-4-6			
Conducted Susceptibility Voltage Dips & Interruptions (AC)		IEC 61000-4-6 IEC 61000-4-11			
Conducted Emission		CISPR 14-1			
	l Emission	CISPR 14-1			
Safety: Test Voltage between I/P and O/P		IEC 60947-5-1			
Test Voltage between I/P and O/P Test Voltage between all terminals					
& enclosure		IEC 60947-5-1			
Impulse Voltage between I/P and O/P		IEC 60947-5-1			
Single Fault Insulation Resistance		IEC 61010-1			
Insulation Resistance Leakage Current		UL 508 UL 508			
	Reference Standard	IEC 61812-1			
Environmental					
Cold Heat		IEC 60068-2-1			
Dry Heat		IEC 60068-2-2			
Vibration	n ve Shock	IEC 60068-2-6 IEC 60068-2-27			
	petitive Shock	IEC 60068-2-27 IEC 60068-2-27			

ORDERING INFORMATION

Cat. No. Description

24-240 VAC / DC, Signal Based Multi - Function, 1 C/O + 1 C/O 2A8DT6

Electronic Timer - Series Micon[®] 225 Signal Based Multi - Function



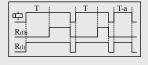
FUNCTIONAL DIAGRAMS

 т. Supply Voltage, S: Input Signal, R: Relay Output, R(I): Instant Relay, R(D): Delayed Relay

 T: Preset Time, TON: Preset ON Time, TOFF: Preset OFF Time, T-a: Timing Break Before completion

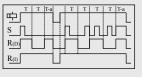
ON DELAY (Non Signal Based)

When supply is applied, timing starts and after the preset time duration 'T', output switches ON and remains ON till the supply is present.



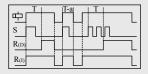
CYCLIC ON/OFF

When the supply applied and signal is closed, output switches ON for the preset time duration 'T' and then switches OFF for preset time duration 'T'. This cycle repeats while the supply is present. Changing the state of signal during 'T' does not affect the output.



SIGNAL ON DELAY TYPE 1

When the input supply & signal are applied, timing starts and after preset time duration 'T' output switches ON & remains ON till the supply is present. Changing the state of signal during 'T' does not affect the output.



SIGNAL ON/ OFF Delay

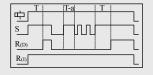
Signal ON/OFF Delay: When the supply is applied and signal is closed, outputs switches ON after preset time 'T'. During the timing 'T' if signal is opened, the output switches ON immediately and OFF delay starts. Once this time period has elapsed the output switches



OFF. During this OFF delay if signal is closed, the output switches OFF immediately and ON Delay restarts.

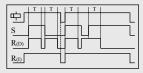
SIGNAL ON DELAY

Time commences as supply and signal is present. When input signal is opened, the timing resets. The output is switched ON at the end of the preset time duration 'T'. When output is ON if signal is opened then the output switches OFF



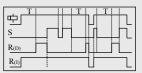
IMPULSE ON/OFF

When supply is applied and if signal closed or opened, output switches ON for Preset time duration 'T'. During time period 'T', changing state of input signal does not affect the output but resets the timing.



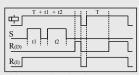
INVERTED SIGNAL ON DELAY

When supply is applied and signal is opened, preset time duration 'T' starts. On completion of the 'T', output switches ON. If the signal is closed during timing 'T', timing resets.



ACCUMULATIVE DELAY ON SIGNAL

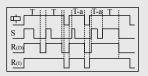
Accumulative Delay ON Signal: On application of the supply voltage, the preset timing commences. Whenever signal is closed, timing pauses & resumes back only when the input



pauses & resumes back only when the input signal is opened. The output switches ON at the end of the preset time duration 'T'.

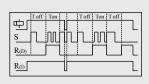
INTERVAL

When supply voltage is applied & signal is closed, output switches ON & timing function starts. If signal is opened and closed during the preset time, the timing restarts. After preset time 'T' has elapsed, the output switches OFF.



DELAYED IMPULSE

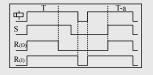
Delayed Impulse: When supply voltage is applied and signal is closed, output switches ON at the end of the preset time 'TOFF'. Then the preset ON time 'TON' starts irrespective of the signal state and remains ON till the completion of preset time duration 'TON'. If



signal closed during the timing 'TOFF', the timing restarts but the output state remains unaffected. The signal change does not have any effect during the timing period 'TON'.

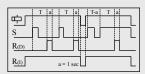
LEADING EDGE IMPULSE

When the supply applied and signal is closed, the output switches ON for preset time 'T'. After the completion of preset time 'T', the output switches OFF. If signal closed or opened during preset time duration 'T', the output remains unaffected.



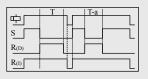
ONE SHOT

One Shot: When the supply voltage is applied and signal is closed, timing starts and after the preset time duration 'T', output switches ON for One sec. only.



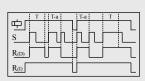
TRAILING EDGE IMPULSE

When supply voltage is applied and signal is opened, output switches ON for the preset time duration 'T. After completion of preset time 'T', output switches OFF. If the signal is closed during preset timing 'T', output switches OFF & timing stops.



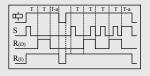
STEP MODE

Step Mode: When the supply voltage is applied and signal closed, output switches ON for preset time duration 'T', removal of the input signal during this time duration 'T' does not affect the output state. But if the signal is closed during time duration 'T', output switches OFF.



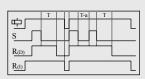
CYCLIC OFF/ON

When the supply applied and signal is closed, output switches OFF for the preset time duration 'T' and then switches ON for preset time duration 'T'. This cycle repeats while the supply is present. Changing the state of signal during 'T' does not affect the output.



SIGNAL OFF DELAY

Signal OFF Delay: When the supply is applied and signal is closed, output is switches ON. When signal is opened, the preset timing commences and output is switches OFF at the end of time duration 'T'. If signal is closed during timing period, then timing stops and restarts when signal.



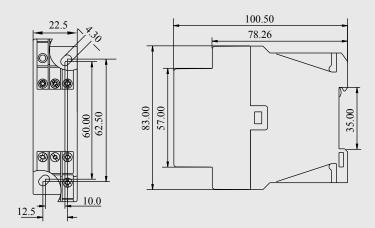
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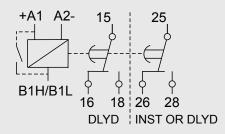
Selection of Function: Operating Mode & timing can be selected by using DIP switches

	Function		Function
1 2 3 4	On Delay (Non Signal)	1 2 3 4	Signal OFF Delay
	Signal On Delay Type 1	===	Step Mode
	Signal On Delay		One Shot
=	Inverted Signal On Delay		Delayed Impulse
	Interval		Accumulative Delay On Signal
	Leading Edge Impulse		Impulse ON / OFF
==	Trailing Edge Impulse		Signal ON / OFF Delay
	Cyclic OFF / ON		Cyclic ON / OFF
1	or 2D Selection	_	Multiplier Selection
5	1I + 1D Operation	6	Timing = 'T' X 't' X 1
	2 Delayed Operation		Timing = 'T' X 't' X 12

MOUNTING DIMENSION (mm)



CONNECTION DIAGRAM



TERMINAL TORQUE & TERMINAL CAPACITY

Ø 3.54.0 mm	Torque - 0.6 N.m (6 Lb.in) Terminal screw - M3	
	1 X 14 mm ² Solid /Stranded Wire	
AWG	1 X 16 to 12	