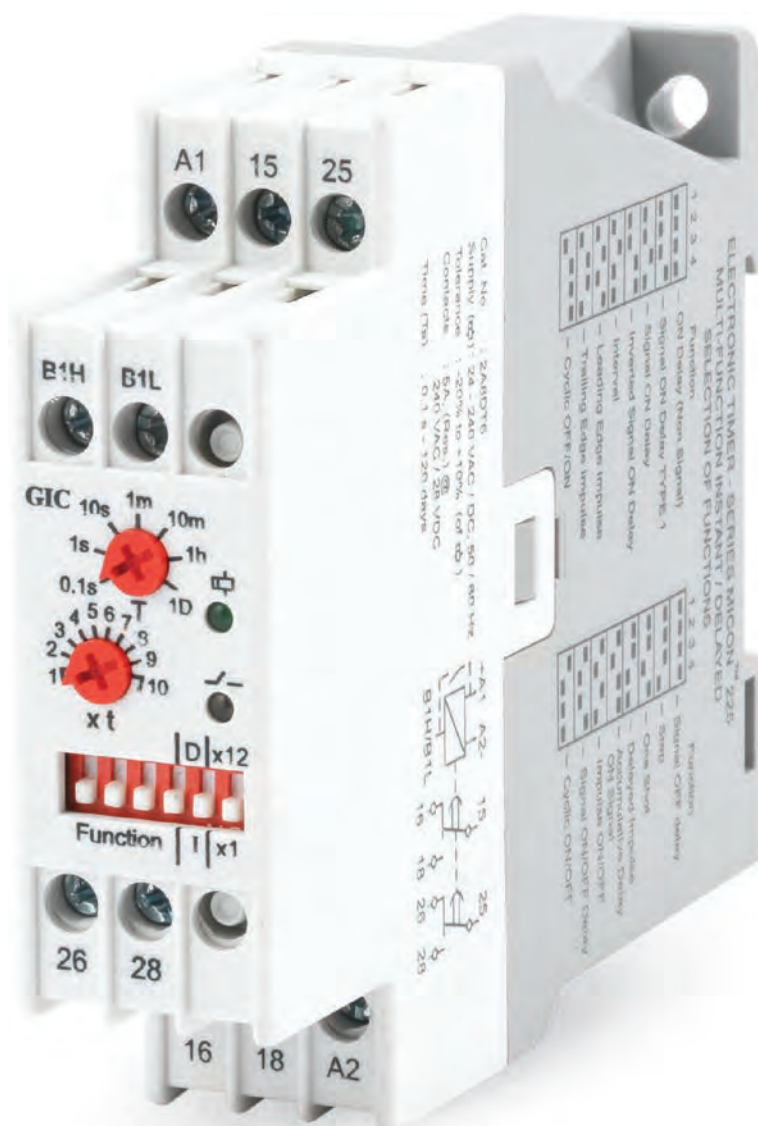


# Electronic Timer - Series Micon® 225

## 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.



## Ordering Information

| Cat. No. | Description                                                   |
|----------|---------------------------------------------------------------|
| 2A8DT6   | 24-240 VAC / DC, Signal Based Multi - Function, 1 C/O + 1 C/O |

# Electronic Timer - Series Micon® 225

## Signal Based Multi - Function



|                               |                     |                                                                                                                                                                                                                                                             |
|-------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cat. No.</b>               |                     | <b>2A8DT6</b>                                                                                                                                                                                                                                               |
| <b>Parameters</b>             |                     |                                                                                                                                                                                                                                                             |
| Timer Description             |                     | <b>Multi-function with Signal Start and Supply Start</b>                                                                                                                                                                                                    |
| Supply Voltage (Φ)            |                     | 24-240 VAC / DC                                                                                                                                                                                                                                             |
| Supply Variation              |                     | - 20% to +10%(of Φ)                                                                                                                                                                                                                                         |
| Frequency                     |                     | 50/60 Hz                                                                                                                                                                                                                                                    |
| Power Consumption (Max.)      |                     | 3 VA                                                                                                                                                                                                                                                        |
| Initiate Time                 |                     | 100 ms (Max.)                                                                                                                                                                                                                                               |
| Reset Time                    |                     | 200 ms (Max.)                                                                                                                                                                                                                                               |
| Signal Voltage                | Low Range (B1L-A2)  | 24-60V AC/DC                                                                                                                                                                                                                                                |
|                               | High Range (B1H-A2) | 85-265V AC, 100-265V DC                                                                                                                                                                                                                                     |
| Signal Sensing Time           |                     | For AC Signals: 50 ms Max.<br>For DC Signals: 20 ms Max.                                                                                                                                                                                                    |
| Signal stabilization Delay    |                     | 100 ms (Applicable at Power ON Only)                                                                                                                                                                                                                        |
| Setting Accuracy              |                     | ± 5% of Full scale                                                                                                                                                                                                                                          |
| Repeat Accuracy               |                     | ± 1%                                                                                                                                                                                                                                                        |
| Output                        | Relay Output        | 1 C/O (Delayed) & 1 C/O (Configurable as either Delayed or Instant)                                                                                                                                                                                         |
|                               | Contact Rating      | 5A @ 240 VAC / 28 VDC (Resistive)                                                                                                                                                                                                                           |
|                               | Contact Material    | AgNi                                                                                                                                                                                                                                                        |
|                               | Electrical Life     | 1x10 <sup>5</sup>                                                                                                                                                                                                                                           |
|                               | Mechanical Life     | 1x10 <sup>7</sup>                                                                                                                                                                                                                                           |
| Set Time (Ts)                 |                     | 0.1 seconds to 120 Days                                                                                                                                                                                                                                     |
| Functions                     |                     | Refer page no. 21 & 22                                                                                                                                                                                                                                      |
| LED Indication 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)                                                                                                                                                                                                                                  |
| Operating Temperature         |                     | -10°C to +60°C                                                                                                                                                                                                                                              |
| Storage Temperature           |                     | -20°C to +70°C                                                                                                                                                                                                                                              |
| Humidity (Non Condensing)     |                     | 95% (Rh)                                                                                                                                                                                                                                                    |
| LED Indication                |                     | Green LED → Power ON, Red LED → Relay ON                                                                                                                                                                                                                    |
| Enclosure                     |                     | Flame Retardant UL94-V0                                                                                                                                                                                                                                     |
| Dimension (W x H x D) (in mm) |                     | 22.5 X 83 X 100.5                                                                                                                                                                                                                                           |
| Weight (unpacked)             |                     | 130 g                                                                                                                                                                                                                                                       |
| Pollution Degree              |                     | II                                                                                                                                                                                                                                                          |
| Certification                 |                     |    |
| 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 |
| Conducted Emission                | CISPR 14-1     |
| Radiated Emission                 | CISPR 14-1     |

### Safety:

|                                                |               |
|------------------------------------------------|---------------|
| Test Voltage between I/P and O/P               | IEC 60947-5-1 |
| Test Voltage between all terminals & enclosure | IEC 60947-5-1 |
| Impulse Voltage between I/P and O/P            | IEC 60947-5-1 |
| Single Fault                                   | IEC 61010-1   |
| Insulation Resistance                          | UL 508        |
| Leakage Current                                | UL 508        |
| Product Reference Standard                     | IEC 61812-1   |

### 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® 225

## Signal Based Multi - Function

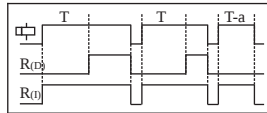


### FUNCTIONAL DIAGRAMS

⏻ : 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

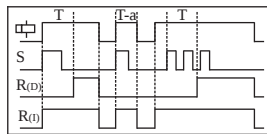
#### ON DELAY (Non Signal Based)

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



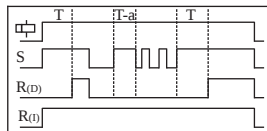
#### SIGNAL ON DELAY TYPE 1

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.



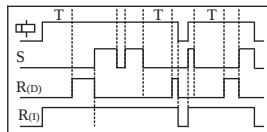
#### SIGNAL ON DELAY

Time commences as supply and signal are 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.



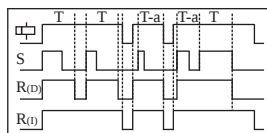
#### INVERTED SIGNAL ON DELAY

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.



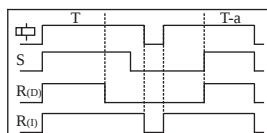
#### INTERVAL

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.



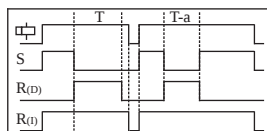
#### LEADING EDGE IMPULSE

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.



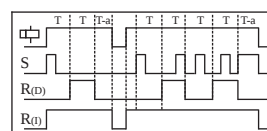
#### TRAILING EDGE IMPULSE

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.



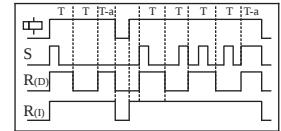
#### CYCLIC OFF/ON

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.



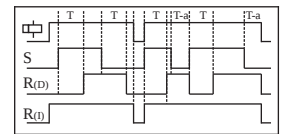
#### CYCLIC ON/OFF

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.



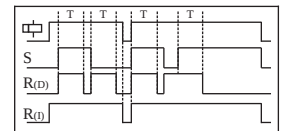
#### SIGNAL ON/ OFF Delay

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.



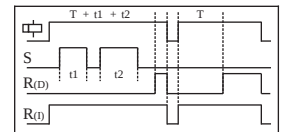
#### IMPULSE ON/OFF

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.



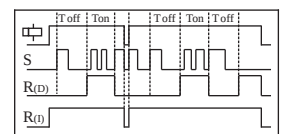
#### ACCUMULATIVE DELAY ON SIGNAL

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 signal is opened. The output switches ON at the end of the preset time duration 'T'.



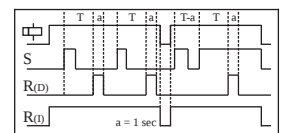
#### DELAYED IMPULSE

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'.



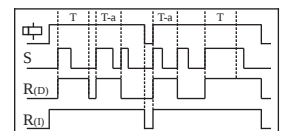
#### ONE SHOT

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.



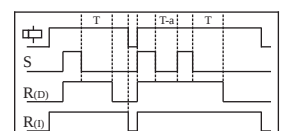
#### STEP MODE

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.



#### 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.



# Electronic Timer - Series Micon® 225

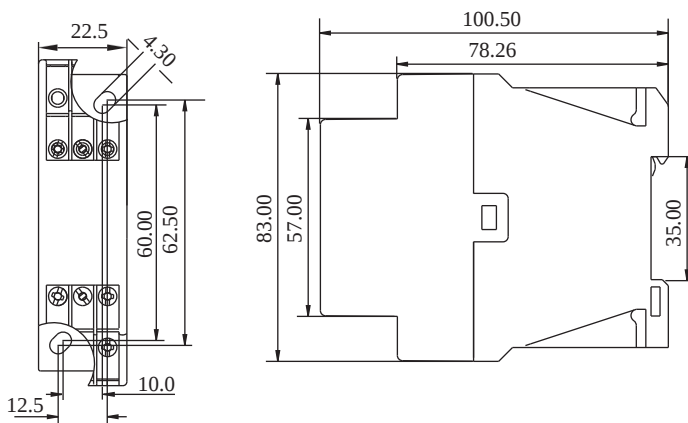
## Signal Based Multi - Function



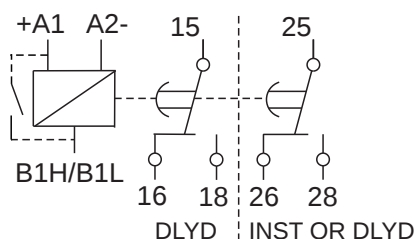
**Selection of Function: Operating Mode & timing can be selected by using DIP switches**

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

### MOUNTING DIMENSION (mm)



### CONNECTION DIAGRAM



### TERMINAL TORQUE & TERMINAL CAPACITY

|                                                   |                                                |
|---------------------------------------------------|------------------------------------------------|
| <br>$\varnothing 3.5...4.0 \text{ mm}$<br><br>AWG | Torque - 0.6 N.m (6 Lb.in)                     |
|                                                   | Terminal screw - M3                            |
|                                                   | 1 X 1...4 mm <sup>2</sup> Solid /Stranded Wire |
|                                                   | 1 X 16 to 12                                   |

# Electronic Timer - Series Micon® 225

- Compact 22.5mm Wide
- Wide Time Range: 0.1s to 10h
- Wide Voltage range for both AC & DC

## Multi Function Timer

- Multi Function Timer with 5 different modes
- 2 C/O Configuration

- Flush knobs for better security
- LED Indications for Power and Relay status
- Excellent Noise Immunity to the latest IEC standards

## Multi Function Timer with 1 Instant & 1 Delayed C/O

- Multi Function Timer with 6 different modes
- 2 C/O Configuration (1 Instant + 1 Delayed)



## Ordering Information

| Cat. No. | Description                                                                                 |
|----------|---------------------------------------------------------------------------------------------|
| 2A5DT5   | 24 - 240 VAC/DC, Multi Function Timer (5 Modes), 2 C/O                                      |
| 2B5DT5   | 240 - 415 VAC, Multi Function Timer (5 Modes), 2 C/O                                        |
| 2A6DT6   | 24 - 240 VAC/DC, Multi Function Timer (6 Modes), 2 C/O (1 Instant + 1 Delayed for 6th Mode) |
| 2B6DT6   | 240 - 415 VAC, Multi Function Timer (6 Modes), 2 C/O (1 Instant + 1 Delayed for 6th Mode)   |
| 2AODT5   | 24 - 240 VAC/DC, ON Delay, 2 C/O                                                            |

UL Approval not applicable for Cat No. 2A6DT6 & 2B6DT6

# Electronic Timer - Series Micon® 225



| Cat. No.                      | 2A5DT5                                                     | 2B6DT6                                                                                          |
|-------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Parameters</b>             |                                                            |                                                                                                 |
| Timer Description             | <b>Multi Function Timer</b>                                |                                                                                                 |
| Modes                         | ON Delay, Interval, Cyclic ON-OFF, Cyclic OFF-ON, One Shot | ON Delay, Interval, Cyclic ON-OFF, Cyclic OFF-ON, One Shot, ON Delay with 1 Instant & 1 Delayed |
| Functional Diagram            |                                                            |                                                                                                 |
| Supply Voltage (Φ)            | 24 - 240 VAC/DC                                            | 240 - 415 VAC                                                                                   |
| Supply Variation              | - 20% to +10% (of Φ)                                       |                                                                                                 |
| Frequency                     | 50/60 Hz                                                   |                                                                                                 |
| Power Consumption (Max.)      | 4 VA                                                       | 7 VA                                                                                            |
| Timing Range                  | 0.1s to 10h                                                |                                                                                                 |
| Reset Time                    | 200 ms (Max.)                                              |                                                                                                 |
| Setting Accuracy              | ± 5% of Full scale                                         |                                                                                                 |
| Repeat Accuracy               | ± 1%                                                       |                                                                                                 |
| Output                        | Relay Output                                               | 2 C/O                                                                                           |
|                               | Contact Rating                                             | 5A @ 240 VAC / 28 VDC (Resistive)                                                               |
|                               | Electrical Life                                            | 1x10 <sup>5</sup>                                                                               |
|                               | Mechanical Life                                            | 1x10 <sup>7</sup>                                                                               |
| Utilization 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                            |
| Operating Temperature         | -15°C to +60°C                                             |                                                                                                 |
| Storage Temperature           | -20°C to +80°C                                             |                                                                                                 |
| Humidity (Non Condensing)     | 95% (Rh)                                                   |                                                                                                 |
| LED Indication                | Green LED → Power ON, Red LED → Relay ON                   |                                                                                                 |
| Enclosure                     | Flame Retardant UL94V0                                     |                                                                                                 |
| Dimension (W x H x D) (in mm) | 22.5 X 75 X 100.5                                          |                                                                                                 |
| Weight (unpacked)             | 130 g                                                      |                                                                                                 |
| Mounting                      | Base / DIN Rail                                            |                                                                                                 |
| Certification                 |                                                            |                                                                                                 |
| 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® 225

- Signal based Multi-function with Relay / Solid State Output
- Asymmetric Timer with Solid State Output



## Ordering Information

| Cat. No. | Description                                                              |
|----------|--------------------------------------------------------------------------|
| 2ANDT0   | 24 - 240 VAC/DC, Signal Based Multi Function Timer, 1 C/O                |
| 20NDTT   | 110 - 240 VAC, Signal Based Multi Function Timer with Solid State Output |
| 20JDTT   | 110 - 240 VAC, Asymmetric Timer with Solid State Output                  |

# Electronic Timer - Series Micon® 225



| Cat. No.                      |                         | 2ANDT0                                                                                              | 20NDTT                  |
|-------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------|-------------------------|
| <b>Parameters</b>             |                         | <b>Signal Based Multi Function</b>                                                                  |                         |
| Description                   |                         | Signal ON Delay, Accumulative ON Delay, Signal OFF Delay, Signal OFF/ON Delay, Leading Edge Impulse |                         |
| Modes                         |                         | ON Delay, Interval                                                                                  |                         |
| Derived Modes                 |                         |                                                                                                     |                         |
| Functional Diagram            |                         |                                                                                                     |                         |
| Supply Voltage (Φ)            |                         | 24 - 240 VAC/DC                                                                                     | 110 - 240 VAC           |
| Supply Variation              |                         | - 20% to +10% (of Φ)                                                                                |                         |
| Frequency                     |                         | 50/60 Hz                                                                                            |                         |
| Power Consumption (Max.)      |                         | 4 VA                                                                                                |                         |
| Timing Ranges                 |                         | 0.1s to 10h                                                                                         |                         |
| Reset Time                    |                         | 200 ms (Max.)                                                                                       |                         |
| Setting Accuracy              |                         | ± 5% of Full scale                                                                                  |                         |
| Repeat Accuracy               |                         | ± 1%                                                                                                |                         |
| Output                        | Relay Output            | 1 C/O (SPDT)                                                                                        | N A                     |
|                               | Contact Rating          | 5A @ 240 VAC / 28 VDC (Resistive)                                                                   | N A                     |
|                               | Electrical Life         | 1x10 <sup>5</sup>                                                                                   | N A                     |
|                               | Mechanical Life         | 1x10 <sup>7</sup>                                                                                   | N A                     |
| Solid State Output            | Type & Form             | N A                                                                                                 | Optical Isolation, SPST |
|                               | Rated Current           | N A                                                                                                 | 1A (AC)                 |
|                               | Max. Admissible Current | N A                                                                                                 | 20A (10 ms)             |
|                               | Vol. Breaking Capacity  | N A                                                                                                 | 110 to 240 VAC          |
|                               | Max. Drop @ Terminals   | N A                                                                                                 | ≤ 8V                    |
|                               | Minimum Load Current    | N A                                                                                                 | 20 mA                   |
|                               | Electrical Life         | N A                                                                                                 | 1x10 <sup>6</sup>       |
| Utilization 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                                |                         |
| Operating Temperature         |                         | -15° C to +60° C                                                                                    |                         |
| Storage Temperature           |                         | -20° C to +80° C                                                                                    |                         |
| Humidity (Non Condensing)     |                         | 95% (Rh)                                                                                            |                         |
| LED Indication                |                         | Green LED → Power ON Red LED → Relay ON                                                             |                         |
| Enclosure                     |                         | Flame Retardant UL94-V0                                                                             |                         |
| Dimension (W x H x D) (in mm) |                         | 22.5 X 75 X 100.5                                                                                   |                         |
| Weight (unpacked)             |                         | 130 g                                                                                               |                         |
| Mounting                      |                         | Base / DIN Rail                                                                                     |                         |
| Certification                 |                         |                                                                                                     |                         |
| 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® 225

## Asymmetric ON-OFF Timer

- Compact 22.5mm Wide
- Can be configured to Switch ON or Switch OFF first
- Independent settings for ON & OFF time
- Wide Time Range
- LED Indications for Power and Relay status

## Star Delta Timer

- Settable Start Time
- Settable Pause Time
- Indications for Star & Delta
- Excellent Noise Immunity to the latest IEC standards



## Ordering Information

| Cat. No. | Description                                                   |
|----------|---------------------------------------------------------------|
| 2AADT5   | 24 - 240 VAC/DC, Asymmetric ON/OFF Timer, 2 C/O               |
| 2ASDT0*  | 24 - 240 VAC/DC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta) |
| 2ASDT1   | 24 - 240 VAC/DC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta) |
| 2BSDT0*  | 240 - 415 VAC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta)   |
| 2BSDT1   | 240 - 415 VAC, Star Delta Timer, 1 NO (Star) + 1 NO (Delta)   |

\*Note: Product with test voltage between input and output at 1.5 kV

# Electronic Timer - Series Micon® 225



| Cat. No.                      | 2AADT5                                       | 2ASDT0                                                               |
|-------------------------------|----------------------------------------------|----------------------------------------------------------------------|
| <b>Parameters</b>             |                                              |                                                                      |
| Timer Description             | <b>Asymmetric Timer</b>                      | <b>Star Delta Timer</b>                                              |
| Mode                          | Asymmetric ON-OFF (A), Asymmetric OFF-ON (B) | Star Delta                                                           |
| Functional Diagram            |                                              |                                                                      |
| Supply Voltage (Φ)            | 24 - 240 VAC/DC                              |                                                                      |
| Supply Variation              | - 20% to +10% (of Φ)                         |                                                                      |
| Frequency                     | 50/60 Hz                                     |                                                                      |
| Power Consumption (Max.)      | 4 VA                                         |                                                                      |
| Timing Ranges                 | 0.1s to 10h                                  | 3s to 120s                                                           |
| Pause Time (P)                | N A                                          | 60ms, 90ms, 120ms, 150ms                                             |
| Reset Time                    | 200 ms (Max.)                                |                                                                      |
| Setting Accuracy              | ± 5% of Full scale                           |                                                                      |
| Repeat Accuracy               | ± 1%                                         |                                                                      |
| Output                        | Relay Output                                 | 2 C/O                                                                |
|                               | Contact Rating                               | 5A @ 240 VAC / 28 VDC (Resistive)                                    |
|                               | Electrical Life                              | 1x10 <sup>6</sup>                                                    |
|                               | Mechanical Life                              | 1x10 <sup>7</sup>                                                    |
| Utilization 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 |
| Operating Temperature         | -15°C to +60°C                               |                                                                      |
| Storage Temperature           | -20°C to +80°C                               |                                                                      |
| Humidity (Non Condensing)     | 95% (Rh)                                     |                                                                      |
| LED Indication                | Green LED → Power ON, Red LED → Relay ON     | Red LED 1 → 'Y' ON, Red LED 2 → 'Δ' ON                               |
| Enclosure                     | Flame Retardant UL94-V0                      |                                                                      |
| Dimension (W x H x D) (in mm) | 22.5 X 75 X 100.5                            |                                                                      |
| Weight (unpacked)             | 130 g                                        |                                                                      |
| Mounting                      | Base / DIN Rail                              |                                                                      |
| Certification                 |                                              |                                                                      |
| 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® 225

- True OFF Delay (Power OFF Delay) upto 600 seconds with 2 C/O.



## Ordering Information

| Cat. No. | Description                                                  |
|----------|--------------------------------------------------------------|
| 23GDT0   | 24-240 VAC/DC, True OFF Delay (Power OFF Delay) Timer, 2 C/O |

# Electronic Timer - Series Micon® 225



| Cat. No.                      |                 | 23GDT0                                                               |
|-------------------------------|-----------------|----------------------------------------------------------------------|
| <b>Parameters</b>             |                 |                                                                      |
| Timer Description             |                 | <b>True OFF Delay (Power OFF Delay) Timer</b>                        |
| Mode                          |                 | True OFF Delay (Power OFF Delay)                                     |
| Functional Diagram            |                 |                                                                      |
| Supply Voltage (⌕)            |                 | 24 - 240 VAC/DC                                                      |
| Supply Variation              |                 | -10 to +20% (of ⌕)                                                   |
| Frequency                     |                 | 50/60 Hz                                                             |
| Power Consumption (Max.)      |                 | 2.5 VA                                                               |
| Energizing Time               |                 | 1s (Minimum)                                                         |
| Timing Range                  |                 | 0.6s to 600s                                                         |
| Setting Accuracy              |                 | ± 5% of Full scale                                                   |
| Repeat Accuracy               |                 | ± 1%                                                                 |
| Output                        | Relay Output    | 2 C/O                                                                |
|                               | Contact Rating  | 5A @ 240 VAC / 28 VDC (Resistive)                                    |
|                               | Electrical Life | 1x10 <sup>5</sup>                                                    |
|                               | Mechanical Life | 1x10 <sup>7</sup>                                                    |
| Utilization 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 |
| Operating Temperature         |                 | -15°C to +60°C                                                       |
| Storage Temperature           |                 | -20°C to +70°C                                                       |
| Humidity (Non Condensing)     |                 | 95% (Rh)                                                             |
| LED Indication                |                 | Green LED → Power ON, Red LED → Relay ON                             |
| Enclosure                     |                 | Flame Retardant UL94-V0                                              |
| Dimension (W x H x D) (in mm) |                 | 22.5 X 75 X 100.5                                                    |
| Weight (unpacked)             |                 | 130 g                                                                |
| Mounting                      |                 | Base / DIN Rail                                                      |
| Certification                 |                 |                                                                      |
| 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     |

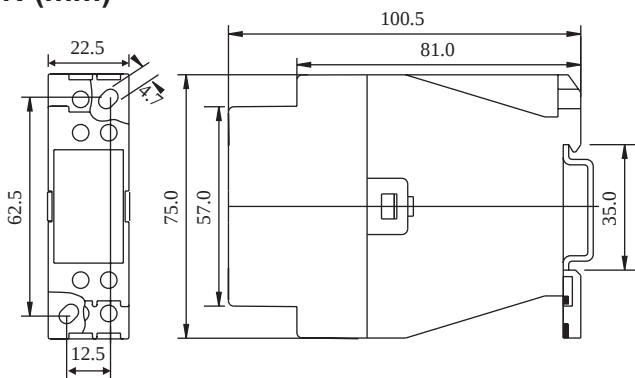
## Environmental

|                      |                |
|----------------------|----------------|
| 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® 225

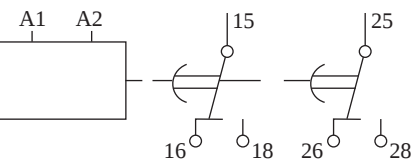


## MOUNTING DIMENSION (mm)

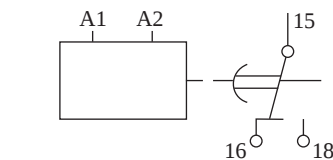


2A5DT5, 2B5DT5, 2AODT5, 2ASDT0, 2ASDT1, 2BSDT0, 2BSDT1, 2AJDT0, 2AJDT1, 2AADT5, 20JDTT, 20NDTT, 2ANDT0, 23GDT0, 2A6DT6, 2B6DT6

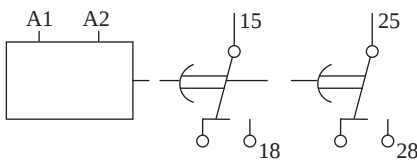
## CONNECTION DIAGRAM



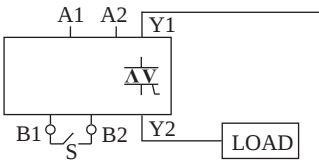
2A5DT5, 2B5DT5, 2AADT5, 23GDT0, 2AODT5



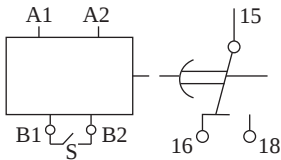
2AJDT0, 2AJDT1, 23UDT0, 27UDT0



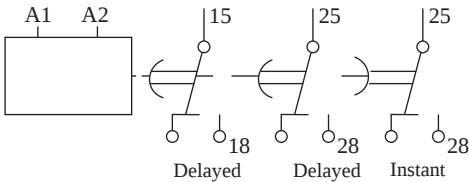
2ASDT0, 2BSDT0, 2ASDT1, 2BSDT1



20JDTT, 20NDTT

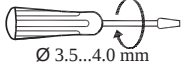


2ANDT0



2A6DT6, 2B6DT6

## TERMINAL TORQUE & TERMINAL CAPACITY

|                                                                                     |                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------|
|  | Torque - 0.6 N.m (6 Lb.in)<br>Terminal screw - M3 |
|  | Solid Wire - 1 X 1...4 mm <sup>2</sup>            |
| AWG                                                                                 | 1 X 18 to 10                                      |