



Electronic Timer - Series Micon® 175

- Compact 17.5mm
- Multi-function Timer: 10 different functions (Non Signal & Signal based)
- Wide voltage range for both, AC & DC
- Separate indications for Power and Relay status
- Wide time range: 0.1s - 100h
- High Degree of Accuracy
- Low Power consumption

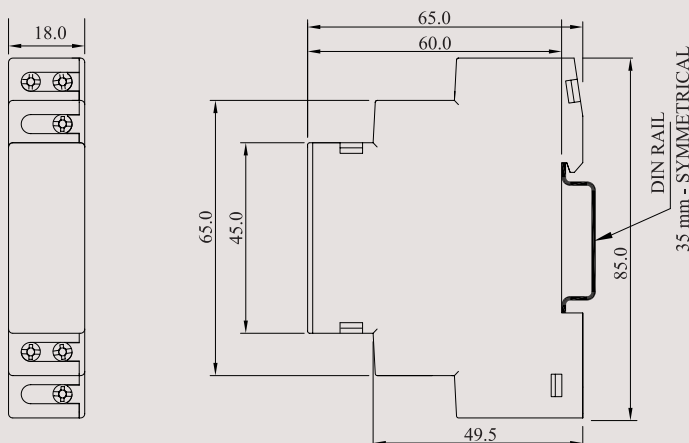


Cat. No.	1CMDT0	
Supply Voltage (⌀)	12 - 240 VAC/DC	
Supply Variation	-15% to +10% (of ⌀)	
Frequency	50/60 Hz	
Power Consumption (Max.)	2 VA	
Modes	1. Signal On Delay [stn], 2. Cyclic ON/OFF [cnf], 3. Cyclic OFF/ON [cfn], 4. Signal OFF Delay [sf], 5. Signal OFF/ON [sfn], 6. Accumulative Delay on Signal [san], 7. Impulse ON/OFF [inf], 8. Leading Edge Impulse [iL], 9. Trailing Edge Impulse [it], 10. Leading Edge Bi-stable [sbi]	
Derived Modes	ON Delay, Interval	
Timing Range	0.1s to 100h	
Reset Time	200 ms (Max)	
Setting Accuracy	± 5% of Full scale	
Repeat Accuracy	± 1%	
Output	Relay Output	1 C/O
	Contact Rating	6A @ 240 VAC / 5A @ 24 VDC (Resistive)
	Electrical Life	5X10 ⁴
	Mechanical Life	1X10 ⁷
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	-10°C to +60°C	
Storage Temperature	-15°C to +70°C	
LED Indication	Green LED → Power ON, Yellow LED → Relay ON	
Enclosure	Flame Retardant UL94-V0	
Dimension (W x H x D) (in mm)	18 X 60 X 85	
Weight (unpacked)	70 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	Ed. 3.0 (2005-11) Class A
ESD	IEC 61000-4-2	Ed. 1.2 (2001-04) Level III
Radiated Susceptibility	IEC 61000-4-3	Ed. 3.0 (2006-02) Level III
Electrical Fast Transients	IEC 61000-4-4	Ed. 2.0 (2004-07) Level IV
Surges	IEC 61000-4-5	Ed. 2.0 (2005-11) Level IV
Conducted Susceptibility	IEC 61000-4-6	Ed. 2.2 (2006-05) Level III
Voltage Dips & Interruptions (AC)	IEC 61000-4-11	Ed. 2.0 (2004-03) All 7 Levels
Voltage Dips & Interruptions (DC)	IEC 61000-4-29	Ed. 1.0 (2000-08) All 5 Levels
Conducted Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class A
Radiated Emission	CISPR 14-1	Ed. 5.0 (2005-11) Class A
Environmental		
Cold Heat	IEC 60068-2-1	Ed. 6.0 (2007-03)
Dry Heat	IEC 60068-2-2	Ed. 5.0 (2007-07)
Vibration	IEC 60068-2-6	Ed. 7.0 (2007-12) 5g
Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 40g, 6ms
Non-Repetitive Shock	IEC 60068-2-27	Ed. 4.0 (2008-02) 30g, 15ms

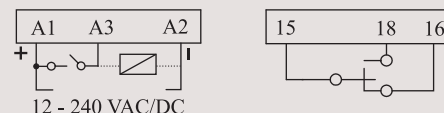
ORDERING INFORMATION

Cat. No.	Description
1CMDT0	12 - 240 V AC/DC, Multifunction (10 Modes), 1 C/O, Dark Grey Casing
1CMDTB	12 - 240 V AC/DC, Multifunction (10 Modes), 1 C/O, Light Grey Casing

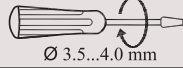
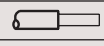
MOUNTING DIMENSION (mm)



CONNECTION DIAGRAM



TERMINAL TORQUE & CAPACITY

 Ø 3.5...4.0 mm	Torque - 0.6 N.m (6 Lb.in) Terminal screw - M3
 AWG	Solid Wire - 1 X 1...4 mm ² 1 X 18 to 10



FUNCTIONAL DIAGRAMS FOR 1CMDT0 & 1CMDTB

SIGNAL ON DELAY [stn]

When input signal is applied to the timer, the preset delay time period starts. On completion of the preset time, the output is switched ON and remains ON till the input signal is present

ACCUMULATIVE DELAY ON SIGNAL [san]

When supply power is applied to the timer, the preset delay time period starts. If an input signal is applied to the timer during this period, the preset time stops and resumes only when the input signal is removed. On completion of the preset time, the output is switched ON

CYCLIC ON/OFF [cnf]

When supply power is applied to the timer, the output is initially switched ON for the preset time duration (T) after which it is switched OFF for the same time duration (T). This cycle continues till the power supply is present

IMPULSE ON/OFF [inf]

When input signal to the timer is applied or removed, the output is immediately switched ON for the preset time duration (T). If the state of the input signal is changed during the preset time, the output does not change state only the time is reset.

CYCLIC OFF/ON [cfn]

When supply power is applied to the timer, the output is initially switched OFF for the preset time duration (T) after which it is switched ON for the same time duration (T). This cycle continues till the power supply is present

LEADING EDGE IMPULSE [iL]

When input signal is applied to the timer 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.

SIGNAL OFF DELAY [sf]

When input signal is applied to the timer, the output is immediately switched ON. When the input signal is switched OFF, the preset time delay period starts. On completion of the time period the output is switched OFF

TRAILING EDGE IMPULSE [it]

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

SIGNAL OFF/ON [sfn]

When input signal is applied to the timer, the preset delay time period (T) starts. On completion of the time preset time, the output is switched ON. When the input signal is switched OFF, again the preset time delay period (T) starts. On completion of the time period the output is switched OFF

LEADING EDGE BISTABLE [sbi]

When input signal is applied to the timer, the output is switched ON and remains ON even after the input signal is removed. On subsequent application of input signal, the output keeps on changing its state

DERIVED MODES

Select mode, 'Signal On Delay' and short the connection between A1 - B1 before power ON
 Select mode, 'Accumulative Delay On Signal' and keep the connection between A1 - B1 open

Select mode, "Leading Edge Impulse" and short the connection between A1 & B1.

ON DELAY

When supply power is applied to the timer, the preset delay time period starts. On completion of the preset time, the output is switched ON and remains ON till the input supply is present

INTERVAL

When supply power is applied to the timer, the output is instantly switched ON. On completion of the preset time, the output is switched OFF

MOUNTING DIMENSION (mm)

