



1CQDT9

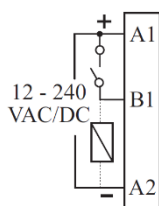
#### GIC Electronic Multifunction Timer

- Multifunction; 10 different modes available
- Wide Voltage range for both AC and DC
- Wide Time Range; 0.1 – 100hrs
- LED Indications for Power and Relay Status
- Independent settings for both ON Tie and OFF Time
- Low Power Consumption

### Properties

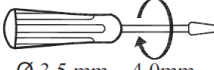

Properties		
Manufacturer	GIC	
Product Range	Eureka Electronic Multifunction Timer	
Degree of Protection	IP20 for Terminals	
	IP30 for Enclosure	
	IP40 for front Side	
Time Range	0.1 seconds to 100 hours	
Rated Supply Voltage	DC	12 - 240 V
	AC	12 - 240 V
Supply Variation	-15% to +10% of the Supply Voltage	
Rated Frequency	50 / 60Hz	
Contact Rating	240 VAC 16A Resistive Load	
	24 VDC 16A Resistive Load	
Reset Time	200ms (Max)	
Relay Output	1 C/O	
Power Consumption	Approximately 2 VA	
Setting Accuracy	±5% of Full scale	
Repeat Accuracy	±1%	
Endurance	Mechanical	5000000 Operations
	Electrical	100000 Operations
Operating Temperature	-10°C ~ +60°C	
Storage Temperature	-15°C ~ +70°C	
Enclosure	Flame Retardant UL94-V0	
LED Indication	Green LED	Power ON
	Yellow LED	Relay ON
Certification	CE, C-UL-US, RoHS Compliant	

### Wiring Diagram



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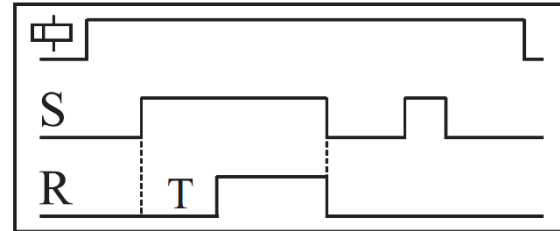
#### Terminal Torque and Capacity

 Ø 3.5 mm....4.0mm	0.60 N.m (6 Lb.in)
	1 x 4.0 mm <sup>2</sup> Solid/Stranded Wire
AWG	1 x 20 to 10

## Functional Diagrams (Modes)

### stn; Signal On Delay

On application of input signal, 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.



### cnf; Cycle On / Off

On application of supply voltage, 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.



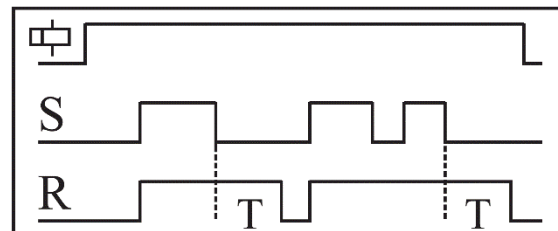
### cfn; Cycle Off / On

On application of supply voltage, 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.



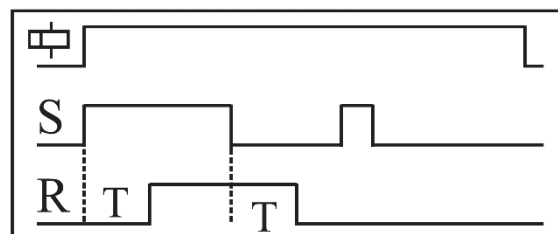
### sf; Signal Off Delay

On application of input signal 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.



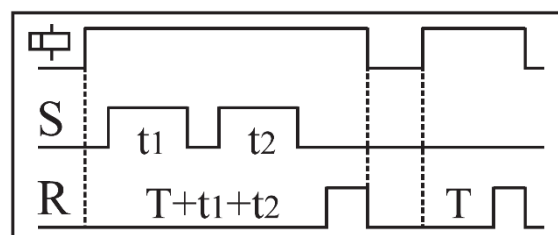
### sfn; Signal Off / On

On application of input signal 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.



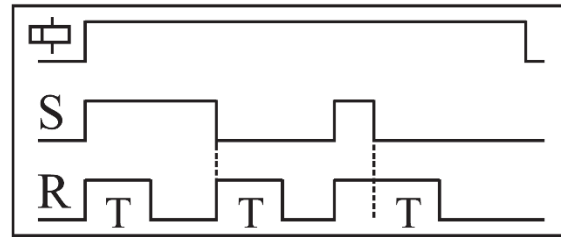
### san; Accumilative Delay on Signal

On application of supply voltage, the preset delay time period starts. If input signal is applied 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.



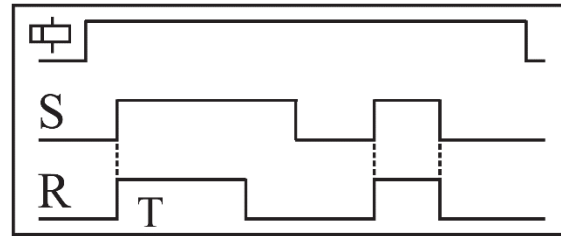
**inf; Impulse On / Off**

On application or removal of input signal to the timer, 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.



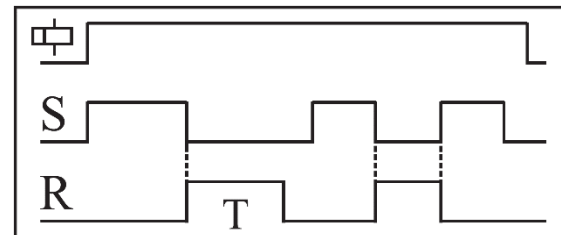
**iL; Leading Edge Impulse**

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.



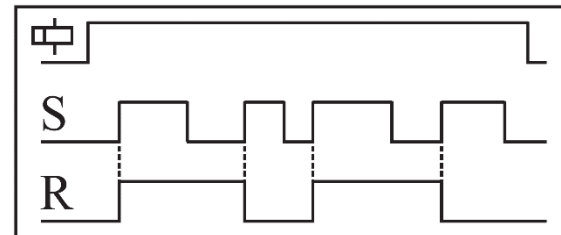
**it; Trailing Edge Impulse**

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.



**sbi; Leading Edge Bistable**

On application of input signal 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.

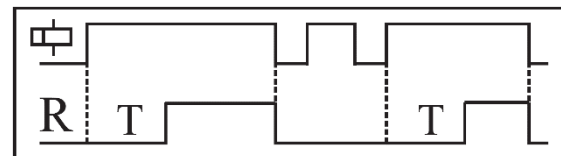


**Derived Modes**

Select 'Signal ON Delay' Mode and short the connection between A1-B1 before power ON OR Select 'Accumulative Delay ON Signal' Mode and keep the connection between A1- B1 open.

**On Delay**

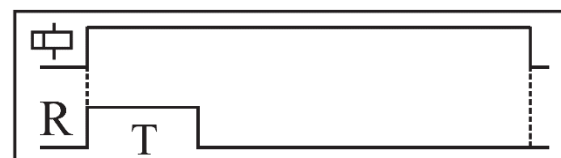
When supply power is applied to the timer, the preset delay time period starts. On completion of the preset time, the output is switched ON and remains ON till the input supply is present.



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

**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.



Catalogue number: **1CQDT9**

GIC Electronic Multifunction Timer



Dimensions for 1CQDT9

