# **Single Time Range Timer**

# DIN Size W48×H48mm Solid State ON Delay Timer

### ■ Features

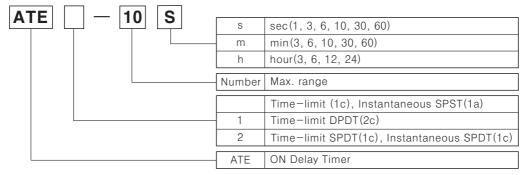
- ●DIN Size W48×H48mm
- •Single range Timer
- Economical price
- •Easy time setting
- •15 time ranges available
- Power supply
  - ATE : 110/220VAC 50/60Hz
  - ATE1, ATE2: 110VAC, 220VAC 50/60Hz, 12VDC, 24VDC (Option)







## Ordering information



## Specifications

Model		ATE- s m h	ATE1- s m h	ATE2- s m h	
Function		Power ON Delay			
Control time setting range		<b>sec</b> (1, 3, 6, 10, 30, 60), <b>min</b> (3, 6, 10, 30, 60), <b>hour</b> (3, 6, 12, 24)			
Power supply		110/220VAC 50/60Hz 110VAC, 220VAC 50/60Hz, 12VDC, 24VDC (Option)			
Allowable voltage range		90 ~ 110% of rated voltage□			
Power consumption		Approx. 10VA(240VAC 60Hz), Approx. 2W(24VDC, 12VDC)			
Return time		Max. 200ms			
Control	Contact type	Time limit SPDT(1c), Instantaneous SPST(1a)	Time limit DPDT(2c)	Time limit SPDT(1c), Instantaneous SPDT(1c)	
Output	Contact capacity	250VAC 3A resistive load			
Relay	Mechanical	Min.10,000,000 times			
life cycle	Electrical	Min. 100,000 times (250VAC 3A resistive load)			
Repeat error		Max. ±0.3%			
Setting error		Max. ±5% ±0.05sec			
Voltage error		Max. ±0.5%			
Temperature error		Max. ±2%			
Insulation resistance		100MΩ (at 500VDC)			
Dielectric strength		2000VAC 50/60Hz for 1 minute			
Noise strength		±2kV the square wave noise(pulse width:1μs) by the noise simulator			
Vibration	Mechanical	$0.75$ mm amplitude at frequency of $10 \sim 55$ Hz in each of X, Y, Z directions for 1 hours			
	Malfunction	0.5mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 10 minutes			
Shock	Mechanical	300m/s² (Approx. 30G) in X, Y, Z directions 3 times			
	Malfunction	100m/s <sup>2</sup> (Approx. 10G) in X, Y, Z directions 3 times			
Ambient temperature		-10 ~ 55℃ (at non-freezing status)			
Storage temperature		-25 ~ 65℃ (at non-freezing status)			
Ambient humidity		35 ~ 85%RH			
Weight		Approx. 75g			

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse

(G) Display unit

(H) Sensor controller

(I) Proximity sensor

(J) Photo electric sensor

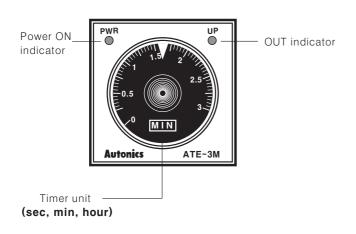
(K) Pressure sensor

(L) Rotary encoder

(M) 5-Phase stepping motor & Driver & Controller

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## **■**Front panel identification

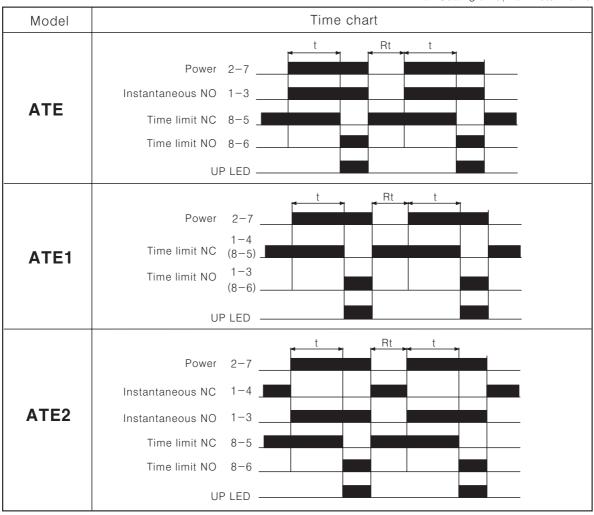


## **■**Time setting range

Max. setting time	Setting range	
1sec	0~1sec	
3sec	0~3sec	
6sec	0~6sec	
10sec	0~10sec	
30sec	0~30sec	
60sec	0~60sec	
3min	0~3min	
6min	0~6min	
10min	0~10min	
30min	0~30min	
60min	0~60min	
3hour	0~3hour	
6hour	0~6hour	
12hour	0~12hour	
24hour	0~24hour	

## Operation mode

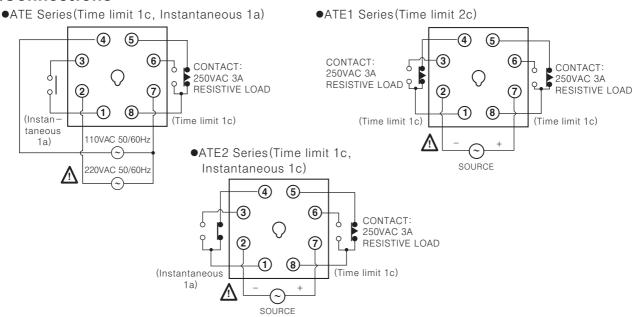
 $t: Setting \ time, \ Rt: Return \ time$ 



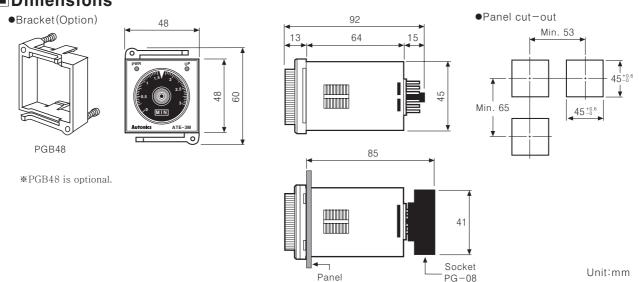
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# Single Time Range Timer

#### Connections



### Dimensions



## ■ Proper usage

#### **©**Environment

Please avoid the following places:

- •A place where this product may be damaged by strong impact or vibration.
- •A place where corrosive gas or flammable gas and water,oil, dust exist.
- •A place where magnetic and electrical noise occur.
- A place where high temperature and humidity are beyond rated specification.
- •A place where there are strong alkalis and acids.
- •A place where there are direct rays of sun.

#### ONoise

1) We test 2kV, Pulse width  $1\mu$ s against Impulse voltage between power terminals and 1kV, Pulse width  $1\mu$ s at noise simulator against external noise voltage.

Please install MP condensor  $(0.1 \sim 1 \mu\text{F})$  or Oil condensor between power teminals when over Impulse noise voltage occurs.

- When testing dielectric voltage and insulation resistance of the control panel with this unit installed.
  - •Please isolate this unit from the circuit of control panel.
  - •Please make all terminals of this unit shorcircuited.

(It prevents the damage of inner circuit.)

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(J) Photo electric sensor

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(L) Rotary encoder

(M) 5-Phase stepping motor & Driver & Controller

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