Single Time Range Timer

DIN W48×H48mm Solid state ON delay timer

■ Features

- ●DIN W48×H48mm
- •Easy and simple time setting
- ●Cost-effective
- •Easy time setting
- •Wide range of time
- Power supply
 - ATE: 110/220VAC 50/60Hz
 - ATE1, ATE2: 110VAC, 220VAC 50/60Hz, 12VDC, 24VDC(Option)

Please read "Caution for your safety" in operation manual before using.





■Ordering information

ATE	_ 10 s		
	_	S	sec.(1, 3, 6, 10, 30, 60)
	Time unit	m	min.(3, 6, 10, 30, 60)
	Time range		hour(3, 6, 12, 24)
			Max. time range
			Time-limit SPDT(1c), Instantaneous SPST(1a)
	Output	1	Time-limit DPDT(2c)
		2	Time-limit SPDT(1c), Instantaneous SPDT(1c)
Item		ATE	ON Delay Timer

■ Specifications

Model		ATE- s m h	ATE1- S m h	ATE2- s m h	
Function		Power ON Delay			
Control time setting range		sec. (1, 3, 6, 10, 30, 60), min. (3, 6, 10, 30, 60), hour (3, 6, 12, 24)			
Power supply		110/220VAC 50/60Hz 110VAC, 220VAC 50/60Hz, 12VDC, 24VDC (Option)			
Allowable voltage range		90 to 110% of rated voltage			
Power consumption		Approx. 10VA(240VAC 60Hz), Approx. 2W(24VDC, 12VDC)			
Reset tim	ie	Max. 200ms			
Timing operation		Power ON start type			
Control output	Contact type	Time limit SPDT(1c), Instantaneous SPST(1a)	Time limit DPDT(2c)	Time limit SPDT(1c), Instantaneous SPDT(1c)	
	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%			
SET error		Max. ±5% ±0.05sec.			
Voltage error		Max. ±0.5%			
Temperature error		Max. ±2%			
Insulation resistance		100MΩ (at 500VDC megger)			
Dielectric strength		2000VAC 50/60Hz for 1 minute			
Noise strength		±2kV the square wave noise(pulse width: 1μs) by the noise simulator			
Vibration -	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 1 hours			
	Malfunction	0.5mm amplitude at frequency of 10 to 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/s² (Approx. 10G) in X, Y, Z directions 3 times			
Ambient temperature		−10 to 55°C (at non-freezing status)			
Storage temperature		-25 to 65℃ (at non-freezing status)			
Ambient humidity		35 to 85%RH			
Unit weight		Approx. 75g			

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L) Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

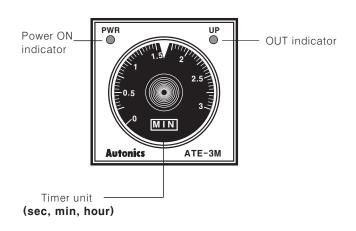
(R) Graphic/ Logic panel

(S) Field network device

(T) Production stoppage models & replacement

Autonics K-52

■Front panel identification

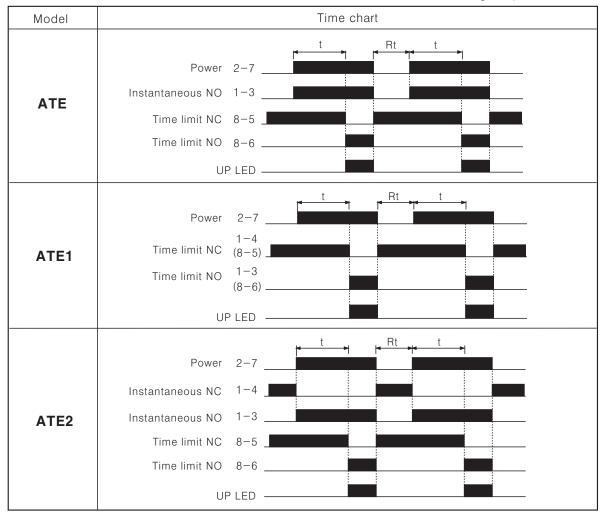


■Time setting range

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

■Output operation mode

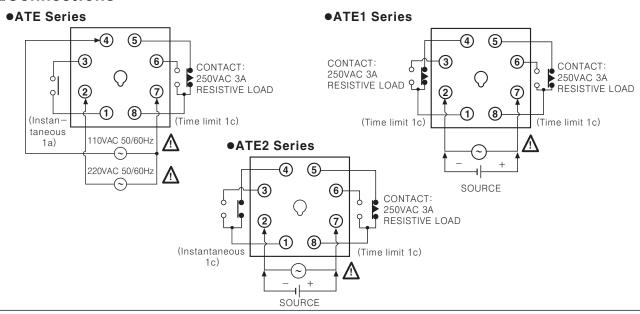
t: Setting time, Rt: Reset time

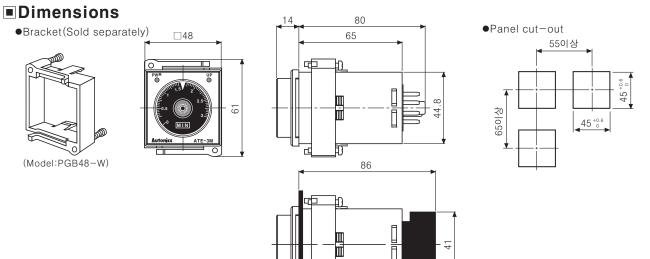


K-53 Autonics

Single Time Range Timer

■ Connections





Panel

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.

※Refer to G-11 page.

8 Pin socket: PG-08(Sold separately)

Please install MP condenser $(0.1 \text{ to } 1\mu\text{F})$ or oil condenser 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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(Unit:mm)

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Autonics K-54