DIN W48×H48mm Analog Timer

Upgrade

Features

- DIN W48×H48mm
- Easy and simple time setting
- Cost-effective
- Easy time setting
- Wide range of time
- Power supply: 100-240VAC 50/60Hz, 24-240VDC



Shaded parts() are changed and added

functions from previous ATE Series.

1	l Λ.	Please read "Safety Considerations" in operation manual before using.
	<u> </u>	manual before using.

Ordering Information

TE 8 - 4	3 D				
		No mark	Time limit SPDT (1c)+Instantaneous SPST (1a)		
	Control output	D	Time limit DPDT (2c)		
		E	Time limit SPDT (1c)+Instantaneous SPDT (1c)		
		1	1 sec/10 sec/1 min/10 min/1 hour		
	Time range	3	3 sec/30 sec/3 min/30 min/3 hour		
		6	6 sec/60 sec/6 min/60 min/6 hour		
Power supply		С	12 sec/12 min/24 min/12 hour/24 hour		
		4	100-240VAC 50/60Hz, 24-240VDC		
Number of p	lug pins	8	8-pin plug type		
Item		ATE	Analog timer		

CE c All us

%8-pin socket (PG-08, PS-08(N)) is sold separately.

Specifications

Model		ATE8-4□	E8-4□ ATE8-4□D					
Function		Power ON Delay Timer						
Control time setting range**1		0.1 sec to 24 hour						
Power supply		100-240VAC~ 50/60Hz, 24-240VDC==						
Permissible voltage range		90 to 110% of rated voltage						
Power consumption		Max. 3.5VA (100-240VAC 50/60Hz), Max. 2.0W (24-240VDC)						
Return tim	ne	Max. 200ms						
Time oper	ation	Power ON Start						
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. 5,000,000 operations						
life cycle	Electrical	Min. 100,000 operations (250VAC 3A resistive load)						
Repeat error		Max. ±0.3% ±0.01 sec						
Set error		Max. ±5% ±0.05 sec						
Voltage error		Max. ±0.5% ±0.01 sec						
Temp. error		Max. ±2% ±0.01 sec						
Insulation	resistance	Over 100MΩ (at 500VDC megger)						
Dielectric strength		2,000VAC 50/60Hz for 1min						
Noise imm	nunity	±2kV the square wave noise (pulse width 1µs) by noise simulator						
Vibration	Mechanical	0.75mm amplitude at frequency 10 to 55Hz (for 1min) in each X, Y, Z direction for 1 hour						
Vibration	Malfunction	0.5mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min						
Shock	Mechanical	300m/s ² (approx. 30G) in each X, Y, Z direction for 3 times						
SHOCK	Malfunction	100m/s ² (approx. 10G) in each X, Y, Z direction for 3 times						
Environ-	Ambient temp.	-10 to 55°C, storage: -25 to 65°C						
ment	Ambient humid.	35 to 85%RH, storage: 35 to 85%RH						
Protection structure		IP40 (front part, IEC standard)						
Approval		(€ e 242 us						
Weight ^{**2}		Approx. 122.2g (approx. 75g)						

X1: Refer to time specifications for control time setting range by model.

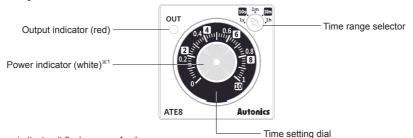
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X2: The weight includes packaging. The weight in parenthesis is for unit only.

^{*}Environment resistance is rated at no freezing or condensation.

Analog Timer

Unit Description



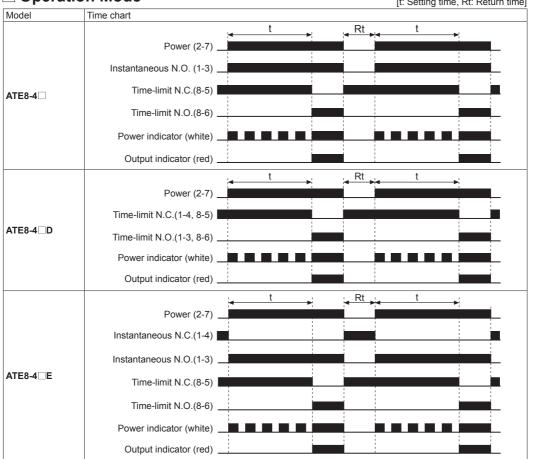
X1: As time progress indicator, it flashes once for 1 sec.

■ Time Specifications

Model	Time range	Time unit	Time setting range	Model	Time range	Time unit	Time setting range
	1	s	0.1 to 1 sec	ATE8-46□	6	s	0.6 to 6 sec
	10		1 to 10 sec		60		6 to 60 sec
ATE8-41□	1	m h	0.1 to 1 min		6	m	0.6 to 6 min
	10		1 to 10 min		60		6 to 60 min
	1		0.1 to 1 hour		6	h	0.6 to 6 hour
ATE8-43□	3	s	0.3 to 3 sec	ATE8-4C□	12	s	1.2 to 12 sec
	30		3 to 30 sec		12	—m	1.2 to 12 min
	3	— m	0.3 to 3 min		24		2.4 to 24 min
	30		3 to 30 min		12	h	1.2 to 12 hour
	3	h	0.3 to 3 hour		24		2.4 to 24 hour

Operation Mode

[t: Setting time, Rt: Return time]



When time-limit of ATE8-4□, ATE8-4□E is set to 0, time-limit contact operates within 30ms right after instantaneous contact operation.

(A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(I) SSRs / Power Controllers

(K) Timers

(N) Display Units

(O) Sensor Controllers

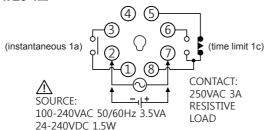
(P) Switching Mode Power Supplies

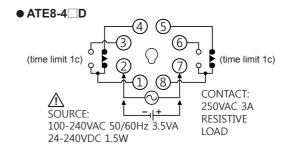
(Q) Stepper Motors

(R) Graphic/ Logic Panels

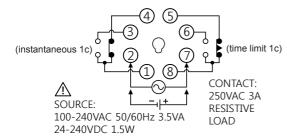
Connections





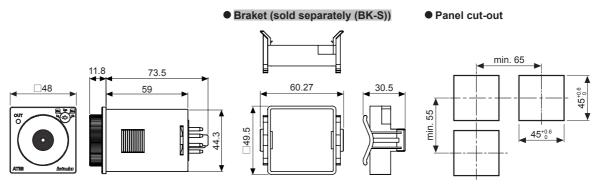


● ATE8-4 ■ E



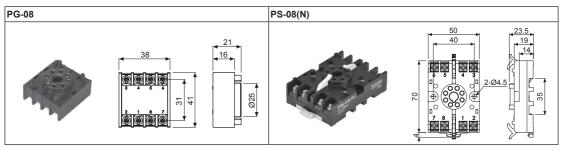
Dimensions

WNameplate design is changed and rear length is shorten than previous.
(unit: mm)



**8-pin socket (PG-08, PS-08(N)) is sold separately. Refer to the '(G)Connectors/Connector Cables/Sensor Distribution Boxes/Sockets'.

Socket (sold separately)

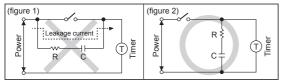


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Analog Timer

■ Proper Usage

- When supplying the power to the timer, use switch, or relay, etc for instant supply. When supplying power slowly, it may cause malfunction.
- When supply the power to the timer, connection shown in (figure 1) might cause malfunction due to circuitous leakage current through resistance (R) and condenser (C). Please connect resistance (R) and condenser (C) as shown in (figure 2) to prevent malfunction due to circuitous leakage current.



- Connect bipolar output contacts as potential.
- Testing dielectric voltage or insulation resistance when the unit is installed at control panel
 - ①Isolate the unit from the circuit of control panel.
- ②Short all terminals of the unit.
- Do not use the unit in the following environments.
 - ①Environments with high vibration or shock.
 - @Environments with strong alkali or strong acid materials
 - 3 Environments with exposure to direct sunlight
- This product may be used in the following environments.
 - ①Indoor
 - ②Altitude max. 2,000m
 - ③Pollution degree 2
 - ④Installation category II

(A) Photoelectric Sensors

(B) Fiber Optic

> (C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

Temperatur Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meter

(M) Tacho / Speed / Pulse Meters

> (N) Display

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

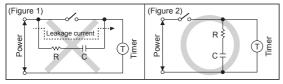
(T) Software

Autonics K-77

Analog Timer

■ Proper Usage

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- When supply the power to the timer, connection shown in (Figure 1) might cause malfunction due to circuitous leakage current through resistance (R) and condenser (C). Please connect resistance (R) and condenser (C) as shown in (Figure 2) to prevent malfunction due to circuitous leakage current.



- Connect bipolar output contacts as potential.
- Testing dielectric voltage or insulation resistance when the unit is installed at control panel
- ①Isolate the unit from the circuit of control panel.
- ②Short all terminals of the unit.
- Do not use the unit in the following environments.
 - ①Environments with high vibration or shock.
 - ②Environments with strong alkali or strong acid materials
 - 3 Environments with exposure to direct sunlight
 - Near machinery which produces strong magnetic force or electric noise
- This product may be used in the following environments.
 - ①Indoor
 - ②Altitude max. 2,000m
 - ③Pollution degree 2
 - ④Installation category II

(A) Photoelectric Sensors

(B) Fiber Optic

> (C) Door/Area Sensors

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