## **DIN W48×H48mm Analog Timer**

#### 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



### Ordering Information

TE 📗	8	_	4	3						
T					- Т <u>.</u>		No mark	Time limit SPDT (1c)+Instantaneous SPST (1a)		
		Time range			Control output		troi 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	
				3	3 sec/30 sec/3 min/30 min/3 hour					
							6	6 sec/60 sec/6 min/60 min/6 hour		
							С	12 sec/12 min/24 min/12 hour/24 hour		
	Power supply					У		4	100-240VAC 50/60Hz, 24-240VDC	
	N	Number of plug pins						8	8-pin plug type	
Item						ATE	Analog timer			
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%8-pin socket (PG-08, PS-08(N)) is sold separately.

#### Specifications

Model		ATE8-4□	ATE8-4□D	ATE8-4□E						
Function		Power ON Delay Timer								
Control tin	ne setting range*1	0.1 sec to 24 hour								
Power sup	oply	100-240VAC∼ 50/60Hz, 24-240VDC≕								
Permissib	le voltage range	90 to 110% of rated voltage								
Power consumption		Max. 3.5VA (100-240VAC== 50/60Hz), Max. 2.0W (24-240VDC==)								
Return time		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, 30VDC== 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 er	ror	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 immunity		±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								
VIDIALIOII	Malfunction	0.5mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min								
Shock	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction for 3 times								
SHOCK	Malfunction	100m/s² (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		(2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,								
Weight <sup>*2</sup>		Approx. 122.2g (approx. 75g)								
		11 0/11 0/								

 $<sup>\</sup>ensuremath{\mathbb{X}}$ 1: Refer to time specifications for control time setting range by model.

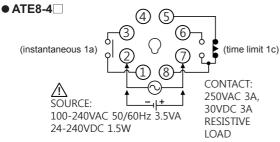
XEnvironment resistance is rated at no freezing or condensation.

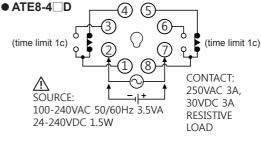
K-74 Autonics

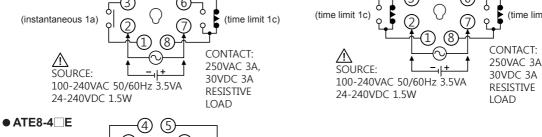
X2: The weight includes packaging. The weight in parenthesis is for unit only.

# **Analog Timer**

#### Connections







(time limit 1c)

CONTACT: 250VAC 3A,

30VDC 3A

**RESISTIVE** 

LOAD

Dimensions

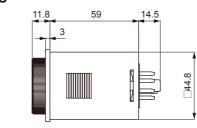
□48

(instantaneous 1c)

SOURCE:

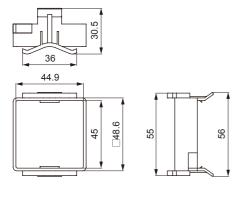
24-240VDC 1.5W

100-240VAC 50/60Hz 3.5VA

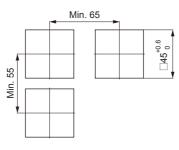


● ATE8-4 □ D

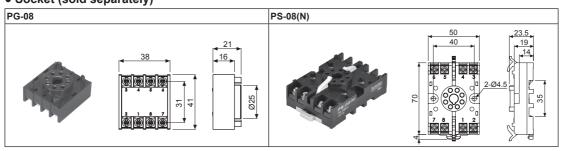
Bracket (sold separately (BK-S))



Panel cut-out



• Socket (sold separately)



(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

(J) Counters

(unit: mm)

(K) Timers

(M) Tacho / Speed / Pulse Meters

(N) Display Units

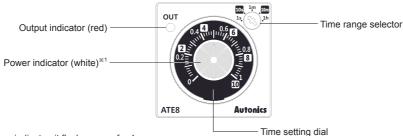
(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

#### Unit Description



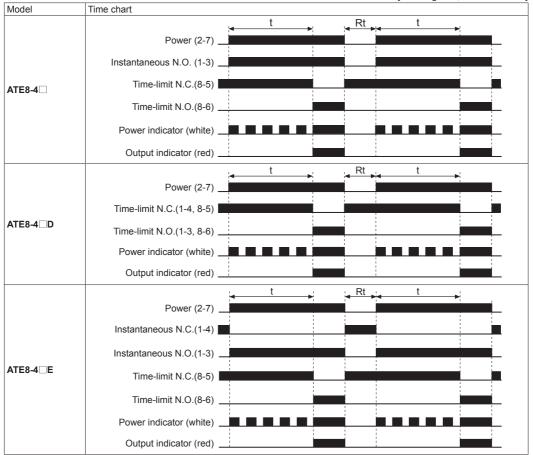
X1: As time progress indicator, it flashes once for 1 sec.

### **■** Time Specifications

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





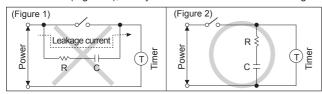
When time-limit of ATE8-4□, ATE8-4□E is set to 0, time-limit contact operates within 30ms right after instantaneous contact operation.

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# **Analog Timer**

#### Proper Usage

- Follow instructions in 'Proper Usage'. Otherwise, it may cause unexpected accidents.
- When supplying or turning off the power, use a switch or etc. to avoid chattering.
- Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.
- In order to avoid leakage current flowing, connect resistance and condenser as (Figure 2). If connect as (Figure 1), it may cause malfunction due to leakage current.v



Keep away from high voltage lines or power lines to prevent inductive noise.

In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line.

Do not use near the equipment which generates strong magnetic force or high frequency noise.

- Connect output contacts of different pole to be electrokinetic potential.
- Change setting time(T1), time range or etc. after turning off the power of the timer.
- This unit may be used in the following environments.
  - ①Indoors (in the environment condition rated in 'Specifications')
  - ②Altitude max. 2,000m
  - ③Pollution degree 2
  - 4 Installation 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

(H) Temperatur Controllers

(I) SSRs / Power Controllers

(J) Counters

#### (K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

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(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

Field Network Devices

(T) Software

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