DIN W48×H48mm Analog Timer

◼ Features

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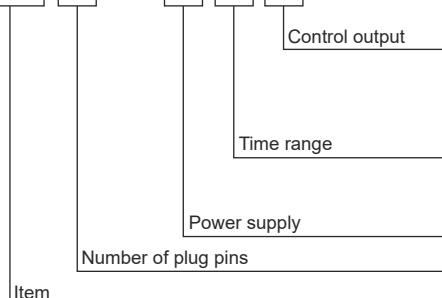- Power supply: 100-240VAC 50/60Hz, 24-240VDC

> ⚠ **Please read "Safety Considerations"**
> **in the instruction manual before using.**

CE c ℝ us

◼ Ordering Information

ATE | 8 | – | 4 | 3 | D

Control output	
No mark	Time limit SPDT (1c)+Instantaneous SPST (1a)
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
C	12 sec/12 min/24 min/12 hour/24 hour
4	100-240VAC 50/60Hz, 24-240VDC
8	8-pin plug type
ATE	Analog timer

Time range — Power supply — Number of plug pins — Item

※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 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 time	Max. 200ms		
Time operation	Power ON Start		
Control output — Contact type	Time-limit SPDT (1c)+ Instantaneous SPST (1a)	Time-limit DPDT (2c)	Time-limit SPDT (1c)+ Instantaneous SPDT (1c)
Control output — Contact capacity	250VAC∼ 3A, 30VDC⎓ 3A resistive load		
Relay life cycle — Mechanical	Min. 5,000,000 operations		
Relay 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 1 min		
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		
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		
Environment — Ambient temp.	-10 to 55℃, storage: -25 to 65℃		
Environment — Ambient humid.	35 to 85%RH, storage: 35 to 85%RH		
Protection structure	IP40 (front part, IEC standard)		
Approval	CE c ℝ us		
Weight[2]	Approx. 122.2g (approx. 75g)		

※1: Refer to time specifications for control time setting range by model.
※2: The weight includes packaging. The weight in parenthesis is for unit only.
※Environment resistance is rated at no freezing or condensation.

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

(K) SSRs

(L) Power Controllers

(M) Counters

(N) Timers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

(T) Switching Mode Power Supplies
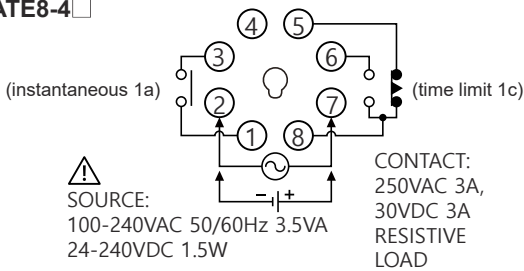
(U) Recorders

(V) HMIs

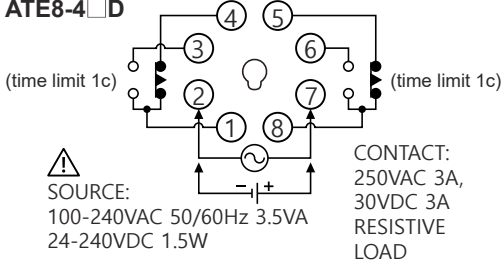(W) Panel PC

(X) Field Network Devices

ATE8 Series

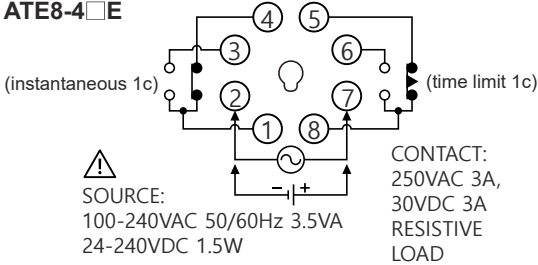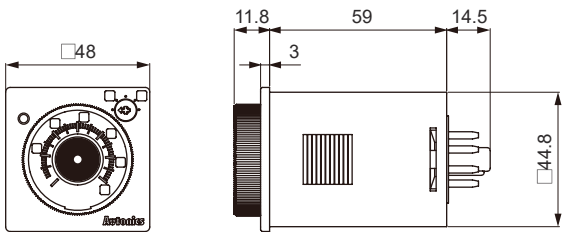## ▣ Connections

● **ATE8-4☐**

(instantaneous 1a)

(time limit 1c)

⚠

SOURCE:
100-240VAC 50/60Hz 3.5VA
24-240VDC 1.5W

CONTACT:
250VAC 3A,
30VDC 3A
RESISTIVE
LOAD

● **ATE8-4☐D**

(time limit 1c)

(time limit 1c)

⚠

SOURCE:
100-240VAC 50/60Hz 3.5VA
24-240VDC 1.5W

CONTACT:
250VAC 3A,
30VDC 3A
RESISTIVE
LOAD

● **ATE8-4☐E**

(instantaneous 1c)

(time limit 1c)

⚠

SOURCE:
100-240VAC 50/60Hz 3.5VA
24-240VDC 1.5W

CONTACT:
250VAC 3A,
30VDC 3A
RESISTIVE
LOAD

▣ Dimensions

(unit: mm)

☐48

11.8   59   14.5

3

☐44.8

◎ **Bracket (sold separately (BK-S))**

30.5

36

44.9

45   ☐48.6

55   56

◎ **Panel cut-out**

Min. 65

Min. 55

☐45 $^{+0.6}_{0}$

● **Socket (sold separately)**

PG-08	PS-08(N)
38 / 21 / 16 / 31 / 41 / Ø25	50 / 40 / 23.5 / 19 / 14 / 70 / 35 / 2-Ø4.5

Autonics

Analog Timer

◼ Unit Description

Output indicator (red)

Power indicator (white)※1

ATE8

Autonics

Time range selector

Time setting dial

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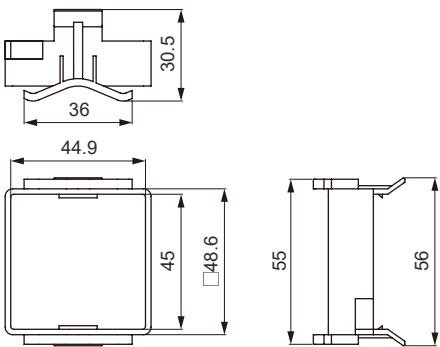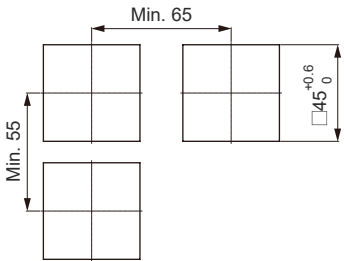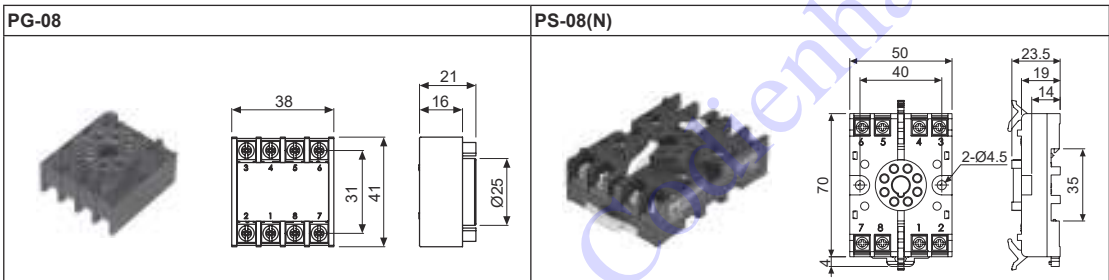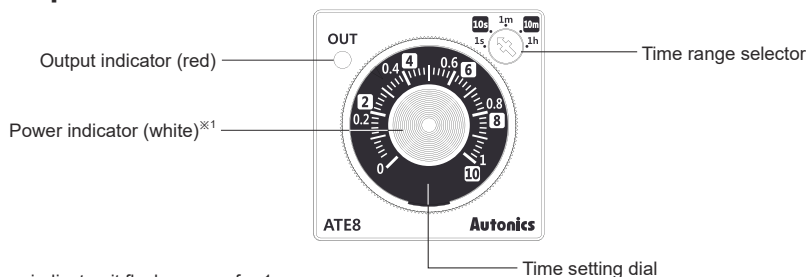
※1: As time progress indicator, it flashes once for 1 sec.

◼ Time Specifications

Model	Time range	Time unit	Time setting range	Model	Time range	Time unit	Time setting range
ATE8-41☐	1	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
	1	m	0.1 to 1 min		6	m	0.6 to 6 min
	10		1 to 10 min		60		6 to 60 min
	1	h	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]

Model	Time chart
ATE8-4☐	Power (2-7) / Instantaneous N.O. (1-3) / Time-limit N.C.(8-5) / Time-limit N.O.(8-6) / Power indicator (white) / Output indicator (red)
ATE8-4☐D	Power (2-7) / Time-limit N.C.(1-4, 8-5) / Time-limit N.O.(1-3, 8-6) / Power indicator (white) / Output indicator (red)
ATE8-4☐E	Power (2-7) / Instantaneous N.C.(1-4) / Instantaneous N.O.(1-3) / Time-limit N.C.(8-5) / Time-limit N.O.(8-6) / Power indicator (white) / Output indicator (red)

※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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ATE8 Series

▣ 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.
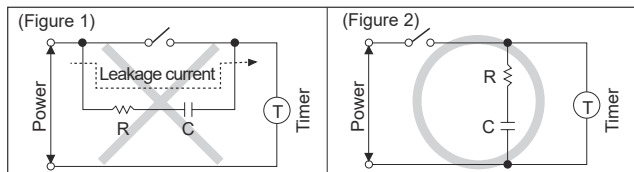
- Keep away from high voltage lines or power lines to prevent inductive noise.
  In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line.
  Do not use near the equipment which generates strong magnetic force or high 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
  ④Installation category II

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