Autonics

8 Pin PLUG TYPE ANALOG TIMER ATE8 SERIES

INSTRUCTION MANUAL





Thank you for choosing our Autonics product. Please read the following safety considerations before use.

Safety Considerations

XPlease observe all safety considerations for safe and proper product operation to avoid hazards.

*Safety considerations are categorized as follows.

▲Warning Failure to follow these instructions may result in serious injury or death

▲Caution Failure to follow these instructions may result in personal injury or product damage.

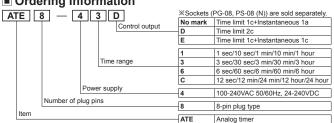
XThe symbols used on the product and instruction manual represent the following ▲ symbol represents caution due to special circumstances in which hazards may occur.

- 1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.) Failure to follow this instruction may result in fire, personal injury, or economic loss
- 2. Install on a device panel to use.
- Failure to follow this instruction may result in electric shock or fire.

 3. Do not connect, repair, or inspect the unit while connected to a power source.
- Failure to follow this instruction may result in electric shock or fire.
- 4. Check 'Connections' before wiring.
- Failure to follow this instruction may result in fire
- 5 Do not disassemble or modify the unit
- Failure to follow this instruction may result in electric shock or fire.

△ Caution

- 1. Use the unit within the rated specifications. Failure to follow this instruction may result in fire or product damage.
- 2. Use dry cloth to clean the unit, and do not use water or organic solvent.
- Failure to follow this instruction may result in electric shock or fire.
- 3. Do not use the unit in the place where flammable/explosive/corrosive gas, humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.
- Failure to follow this instruction may result in fire or explosion 4. Keep metal chip, dust, and wire residue from flowing into the unit. Failure to follow this instruction may result in fire or product damage
- Ordering Information



Unit Description ime range selector Output indicator (red) Power indicator (white)*1 Time setting dial X1: As time progress indicator, it flashes once for 1 sec

**The above specifications are subject to change and some models may be discontinued without notice. *Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage)

Specifications

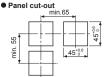
Model		ATE8-4	ATE8-4_D	ATE8-4_E				
Function		Power ON Delay Timer						
Control time setting range*1		0.1 sec to 24 hour						
Power supply		100-240VAC~ 50/60Hz, 24-240VDC==						
Permissible voltage range		90 to 110% of rated voltage						
Power consumption		Max. 3.5VA (100-240VAC~ 50/60Hz), Max. 2.0W (24-240VDC==)						
Return time		Max. 200ms						
Time operation		Power ON Start						
Control	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 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 1 min) in each X, Y, Z direction for 1 hour						
	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						
	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	nent Ambient humid. 35 to 85%RH, storage: 35 to 85%RH							
Protection structure		IP40 (front part, IEC standard)						
Approval		(€ c 91 /us						
Weight ^{×2}		Approx. 122.2g (approx. 75g)						
X1 · Dofo	r to time appoifies	tions for control time setting r	anga hu madal					

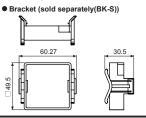
- X1: Refer to time specifications for control time setting range by model.
- X2: The weight includes packaging. The weight in parenthesis is for unit only.
- X Environment resistance is rated at no freezing or condensation

Time Specifications

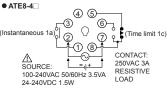
	Model	Time range	Time unit	Time setting range	Model	Time range	Time unit	Time setting range
	ATE8-41□	1	s	0.1 to 1 sec	ATE8-46□	6		0.6 to 6 sec
		10		1 to 10 sec		60		6 to 60 sec
		1	m h	0.1 to 1 min		6	m	0.6 to 6 min
		10		1 to 10 min		60		6 to 60 min
		1		0.1 to 1 hour		6	h	0.6 to 6 hour
	ATE8-43□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

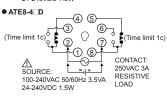
Dimensions (unit: mm 73.5 59

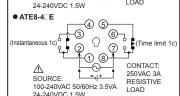




Connections

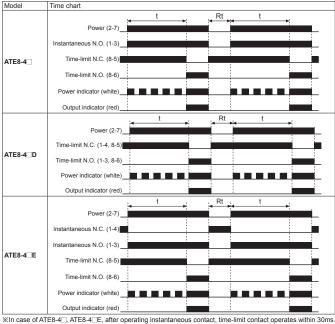






Operation Mode

[t: Setting time, Rt: Return time]



Cautions during Use

- 1. Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents.
- 2. When supplying or turning off the power, use a switch or etc. to avoid chattering.
- 3. Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power. 4. 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.
- 5. 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. 6. Connect output contacts of different pole to be electrokinetic potential.
- 7. Change setting time(T1), Y-Δ switching time or etc. after turning off the power of the timer.
- 8. This unit may be used in the following environments. ①Indoors (in the environment condition rated in 'Specifications')
- @Altitude max. 2.000m
- ③Pollution degree 2 (4) Installation category II

Major Products

■ Photoelectric Sensors ■ Temperature Controllers Fiber Optic Sensors Door Sensors Door Side Sensors Area Sensors Timers

Temperature/Humidity Transducers SSRs/Power Controllers Counters

Proximity Sensors Pressure Sensors Panel Meters Rotary Encoders

- Tachometers/Pulse (Rate) Meters ■ Display Units Connectors/Sockets Sensor Controllers
- Switching Mode Power Supplies
- Control Switches/Lamps/Buzzers ■ I/O Terminal Blocks & Cables
- Stepper Motors/Drivers/Motion Controllers Graphic/Logic Panels
- Field Network Devices
- Laser Marking System (Fiber, Co2, Nd: YAG) ■ Laser Welding/Cutting System

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