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.

XSafety 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

*The symbols used on the product and instruction manual represent the following

♠ symbol represents caution due to special circumstances in which hazards may occur

△ Warning

- 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 personal injury, fire, or economic loss.
- 2. The unit must be installed on a device panel before use. Failure to follow this instruction may result in electric shock.
- 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.
- 4. Do not disassemble or modify the unit. Please contact us if necessary. Failure to follow this instruction may result in electric shock or fire.

△ Caution

- 1. Do not use the unit outdoors.
- Failure to follow this instruction may result in shortening the life cycle of the unit, or electric shock.
- Use the unit within the rated specifications.
 Failure to follow this instruction may result in shortening the life cycle of the unit, or fire
- 3. Do not use loads beyond the rated switching capacity of the relay contact.
- Failure to follow this instruction may result in insulation failure, contact failure, contact bonding, relay damage
- 4. Do not use water or oil-based detergent when cleaning the unit. Use dry cloth to clean the unit.
- Failure to follow these instructions may result in electric shock or fire.

 5. Do not use the unit where flammable or explosive gas, humidity, direct sunlight, radiant heat, vibration, and impact may be present.
- Failure to follow this instruction may result in fire or explosion.

 6. Keep 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



*The above specifications are subject to change and some models may be discontinued without notice.

Specifications

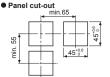
Model		ATE8-4	ATE8-4_D	ATE8-4_E				
Function		Power ON Delay Timer						
Control time setting range*1		0.1 sec to 24 hour						
Power supply		100-240VAC~ 50/60Hz, 24-240VDC~						
Permissible voltage range		90 to 110% of rated voltage						
Power consumption		Max. 3.5VA (100-240VAC~ 50/60Hz), Max. 2.0W (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)				
	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	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)						
V1. Dofo	r to time appoifies	tions for control time setting r	anna biranadal					

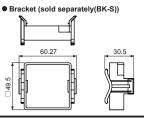
- : Refer to time specifications for control time setting range by model
- X2: The weight includes packaging. The weight in parenthesis is for unit only.
- X Environment resistance is rated at no freezing or condensation

Time Specifications

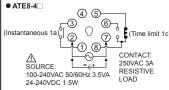
Model	Time range	Time unit	Time setting range	Model	Time range	Time unit	Time setting range
	1	s	0.1 to 1 sec	ATE8-46□	6	•	0.6 to 6 sec
	10		1 to 10 sec		60		6 to 60 sec
ATE8-41□	1	m h	0.1 to 1 min		6	m	0.6 to 6 min
	10		1 to 10 min		60		6 to 60 min
	1		0.1 to 1 hour		6	h	0.6 to 6 hour
	3	s	0.3 to 3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

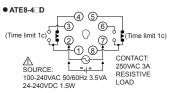
Dimensions (unit: mm 73.5 59

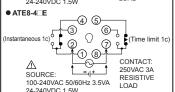




Connections

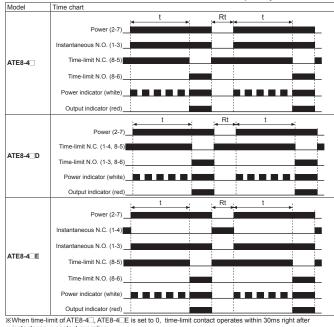






Operation Mode

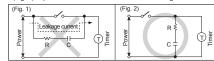
[t: Setting time, Rt: Return time]



instantaneous contact operation.

Cautions during Use

- 1. When supplying the power to the timer, use switch, or relay, etc for instant supply. When supplying power slowly, it may cause malfunction.
- 2. When supply the power to the timer, connection shown in (Fig. 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 (Fig. 2) to prevent malfunction due to circuitous leakage current.



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

Major Products

- Photoelectric Sensors Temperature Controllers
 Fiber Optic Sensors Temperature/Humidity Transducers Door Sensors SRs/Power Controllers counters
- Door Side Sensors Area Sensors Timers Panel Meters Proximity Sensors Tachometers/Pulse (Rate) Meters
- Pressure Sensors Display Units Rotary Encoders ■ 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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