DIN W48×H48mm Analog Timer

Features

Upgrade



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 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						
	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						
	Malfunction	100m/s ² (approx. 10G) in each X, Y, Z direction for 3 times						
Environ- Ambient temp10 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								
Weight ^{**2}		Approx. 122.2g (approx. 75g)						

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.

*Environment resistance is rated at no freezing or condensation.

Analog Timer

(F) Rotary Encoders

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

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(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

(S) Field Network Devices

(T) Software



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	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
	3	s	0.3 to 3 sec	ATE8-4C	12	s	1.2 to 12 sec
	30		3 to 30 sec		12		1.2 to 12 min
ATE8-43	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



Autonics

Connections



Dimensions

XNameplate design is changed and rear length is shorten than previous.

(unit: mm)



• Socket (sold separately)



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 ③Environments with exposure to direct sunlight ④Near machinery which produces strong magnetic force or electric noise
- This product may be used in the following environments. Indoor
- ②Altitude max. 2,000m ③Pollution degree 2 ④Installation category II



(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

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