Autonics

ANALOG TIMER ATS8SD-4



Thank you very much for selecting Autonics products. For your safety, please read the following before using.

Caution for your safety

*Please keep these instructions and review them before using this unit.

*Please observe the cautions that follow;

Marning Serious injury may result if instructions are not followed.

↑ Caution Product may be damaged, or injury may result if instructions are not

*The following is an explanation of the symbols used in the operation manual. A Caution: Injury or danger may occur under special conditions.

∧ Warning

- 1. In case of using this unit with machineries (Nuclear power control, medical equipment, vehicle, train, airplane, combustion apparatus, entertainment or safety device etc), it is required to install fail-safe device, or contact us. It may cause a fire, human injury or property loss.
- 2. Install the unit on a panel.

It may give an electric shock.

3. Do not connect, inspect or repair when power is on.

It may give an electric shock.

4. Do not disassemble the case. Please contact us if it is required.

It may cause an electric shock or a fire.

⚠ Caution

- 1. This unit shall not be used outdoors.
- It might shorten the life cycle of the product or give an electric shock.
- 2. Please observe the rated specifications.

It might shorten the life cycle of the product and cause a fire.

- 3. Do not use beyond of the rated switching capacity of Relay contact. It may cause insulation failure, contact melt, contact failure, relay broken and fire etc.
- 4. In cleaning unit, do not use water or an oil-based detergent and use dry towels. It may cause an electric shock or a fire
- 5. Do not use this unit in place where there are flammable or explosive gas, humidity. direct ray of the light, radiant heat, vibration and impact etc.
- It may cause a fire or an explosion.
- 6. Do not inflow dust or wire dreas into the unit.

It may cause a fire or a malfunction

Ordering information

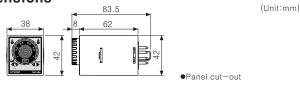


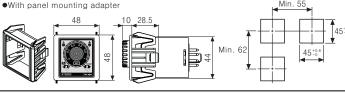
*The above specifications are subject to change without notice.

Specifications

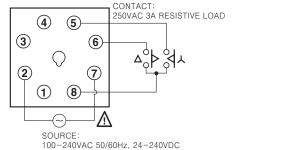
Model			ATS8SD-4				
Function			Star-Delta switching				
Control tim	ne setting ra	ange	0.5sec ~ 100sec				
Power su	pply		100-240VAC 50/60Hz, 24-240VDC (Universal)				
Allowable	voltage ra	inge	90 ~ 110% of rated voltage				
Power co	nsumptio	n	100-240VAC: 3VA, 24-240VDC: 1.5W				
Return tir	me		Max. 100ms				
Control	Contact	Туре	人 Contact: SPST(1a), △ Contact: SPST(1a)				
output	Contact	Capacity	250VAC 3A resistive load				
	Mechanical		Min.10,000,000 times				
life cycle	life cycle Electrical		Min. 100,000 times(250VAC 3A resistive load)				
Repeat e	rror		Max. ±0.2% ±10ms				
Setting e	rror		Max. $\pm 5\%~\pm 50$ ms				
Voltage e	error		Max. ±0.5%				
Temperat	ture error		Max. ±2%				
人-△ Sw	itching tir	ne error	Max. ±25%				
Insulation	resistanc	е	100MΩ (at 500VDC)				
Dielectric	stength		2000VAC 50/60Hz for 1 minute				
Noine etr	Noise strength		Square-wave noise by noise simulator,				
NOISE SU	engui		apply ± 2 kV in power input terminals				
	Destruction		0.75mm amplitude at frequency of 10 to 55Hz				
Vibration			in each of X, Y, Z directions for 1 hours				
VIDIALIOII	Malfunction		0.5mm amplitude at frequency of 10 to 55Hz				
			in each of X, Y, Z directions for 10 minutes				
Shock	Destruction		300m/s ² (Approx. 30G) 3 times at X, Y, Z direction				
SHOCK	Malfunction		100m/s ² (Approx. 10G) 3 times at X, Y, Z direction				
	emperatu		-10 ~ 55℃ (at non-freezing status)				
Storage temperature			-25 ~ 65℃ (at non-freezing status)				
Ambient humidity			35 ~ 85%RH				
Approval			(€ : 🕊 :)				
Unit weight			Approx. 72g				

Dimensions



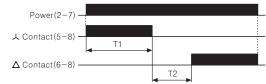


Connections



Operation and time specification

- Operation
 - 人 contact will be ON as soon as power is supplied. 人 contact will be OFF when
- T1 setting time is up then Δ contact will be ON after T2 switching time is up. Δ contact will be OFF when cut off the power at the status of Δ contact is ON.



- T1: Setting time(人 contact operation)
- T2: $A \Delta$ Swtiching time (A and Δ contact are OFF when power is ON.)
- Time specification
- T1 (Setting time)

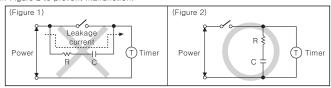
Time range	Time unit	Time setting range		
5		0.5 ~ 5sec		
10	sec	1 ~ 10sec		
50	360	5 ~ 50sec		
100		10 ~ 100sec		

• T2(人-△ Switching time)

Γ2(人-Δ Switching time	0.05sec	0.1sec	0.2sec	0.3sec	0.4sec	0.5sec
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Caution for using

- 1. When apply the power, please apply rating power at the moment by switch, relay etc. Otherwise it might cause malfunction.
- 2. When supply the power to the Timer, connection shown in Figure 1 might cause malfunction due to leakage current through R and C. Please connect R and C as shown in Figure 2 to prevent malfunction



- 3. It might cause malfunction if changing the setting time, time range or operation mode during operating unit. Please change the setting time, time range or operation mode after cut the power off.
- 4. When performing dielectric voltage test or insulation resistance test while the unit is installed on control panel
- 1) Please isolate this unit from the circuit of control panel.
- @Please make all terminals of this unit short-circuited.
- 5. Do not use this unit at below places. 1) Place where there are severe vibration or impact.
- @Place where strong alkalis or acids are used.
- 3Place where there are direct ray of the sun.
- (4) Place where strong magnetic field or electric noise are generated.
- 6. Installation environment
- ①It shall be used indoor ②Altitude Max. 2000m
- ③Pollution Degree 2 (4) Installation Category II

*It may cause malfunction if above instructions are not followed.

■ Fiber optic sensors

■ Display units

Maior products ■ Photoelectric sensors

- Proximity sensors Area sensors
- Door/Door side sensors Pressure sensors ■ Counters
- Rotary encoders
- Power controllers ■ Sensor controllers
- Panel meters
- Graphic/Logic panels
- Temperature controllers ■ Tachometer/Pulse(Rate) meters
- Temperature/Humidity transducers
- Stepping motors/drivers/motion controllers Laser marking system(CO2, Nd:YAG)
- Laser welding/soldering system

Autonics Corporation

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