



Autonics TCD220054AA AT8PMN Series Power Off Delay Analog Timers Instruction Manual

[Home](#) » [Autonics](#) » Autonics TCD220054AA AT8PMN Series Power Off Delay Analog Timers Instruction Manual



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Thank you for choosing our Autonics product. Read and understand the instruction manual and manual thoroughly before using the product. For your safety, read and follow the below safety considerations before using. For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website. Keep this instruction manual in a place where you can find easily. The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice. Follow Autonics website for the latest information.

Contents

- 1 Safety Considerations
- 2 Cautions during Use
- 3 Ordering Information
- 4 Product Components
- 5 Sold Separately
- 6 Dimensions
- 7 UNIT DESCRIPTIONS
- 8 OPERATION TIMING CHART
- 9 SPECIFICATIONS
- 10 Documents / Resources
 - 10.1 References
- 11 Related Posts

Safety Considerations

- Observe all 'Safety Considerations' for safe and proper operation to avoid hazard
- symbol indicates caution due to special circumstances in which hazards may occur.

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

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 personal injury, economic loss or fire.
2. Do not use the unit in the place where flammable/explosive/corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact or salinity may be present. Failure to follow this instruction may result in explosion or fire.
3. Install on a device panel to use. Failure to follow this instruction may result in fire or electric shock.
4. Do not connect, repair, or inspect the unit while connected to a power source. Failure to follow this instruction may result in fire or electric shock.
5. Check 'Connections' before wiring. Failure to follow this instruction may result in fire.
6. Do not disassemble or modify the unit Failure to follow this instruction may result in fire or electric shock.

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

1. Use the unit within the rated specifications. Failure to follow this instruction may result in fire or product damage.
2. Use a dry cloth to clean the unit, and do not use water or organic solvent Failure to follow this instruction may result in fire or electric shock.
3. Keep the product away from metal chip, dust, and wire residue which flow into the unit. Failure to follow this instruction may result in fire or product damage.

Cautions during Use

- Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- Power supply should be insulated and limited voltage/current or Class2, SELV power supply device.
- The time of min. power supply is 0.1 sec for SEC unit model, and 2 sec for MIN unit model. The operation of timer begins after turning off the power.
- 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.
- After turning off the power, change the time range, etc.
- 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.
- This unit may be used in the following environments.
 - Indoors (in the environment condition rated in 'Specifications')
 - Altitude max. 2,000 m
 - Pollution degree 2
 - Installation category II

Ordering Information

This is only for reference. For selecting the specified model, follow the Autonics website.

AT8P ① - ②

1. Time unit SN: SEC MN: MIN
2. Power supply No mark: 200 – 240 VAC— 50 / 60 Hz 2:24 VAC— 50 / 60 Hz, 24 VDC= 6: 100 -120 VAC— 50 / 60 Hz 7: 100 / 110 VDC=

Product Components

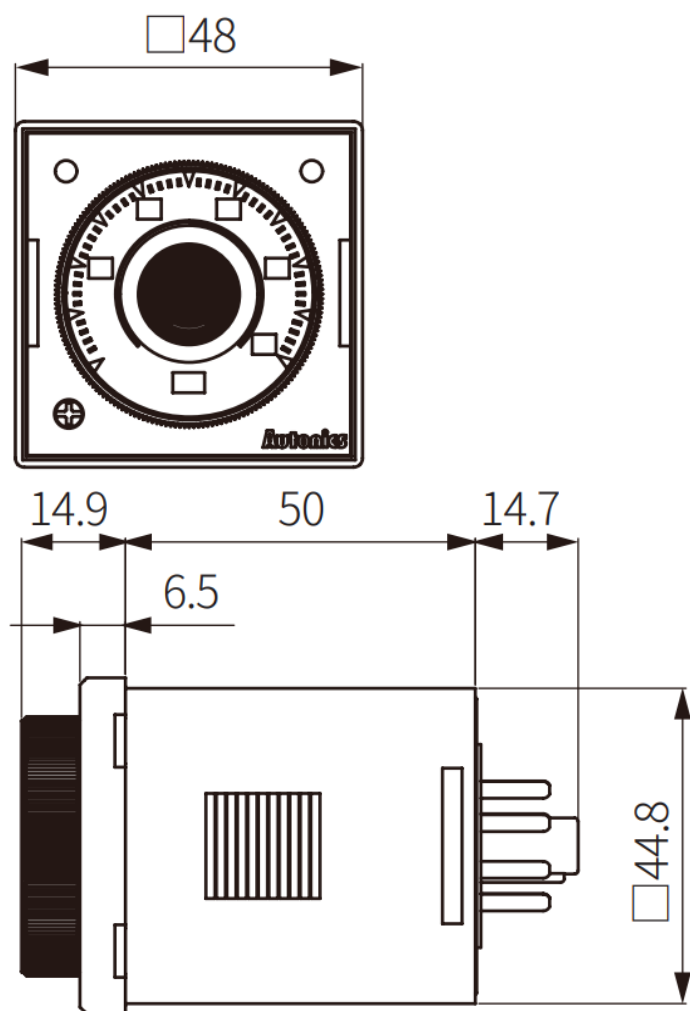
Product (+ bracket)

Sold Separately

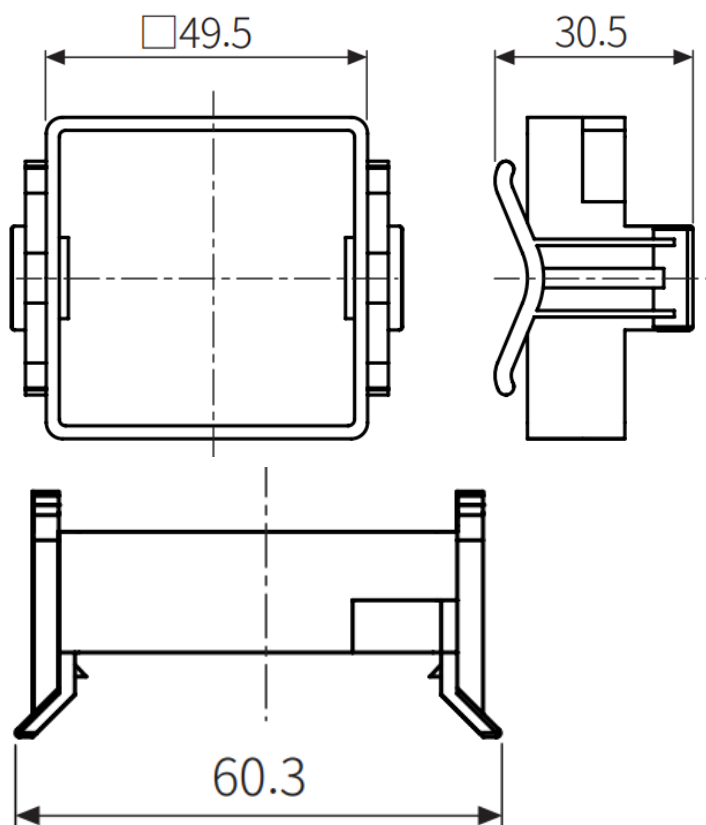
8-pin socket: PG-08, PS-08(N)

Dimensions

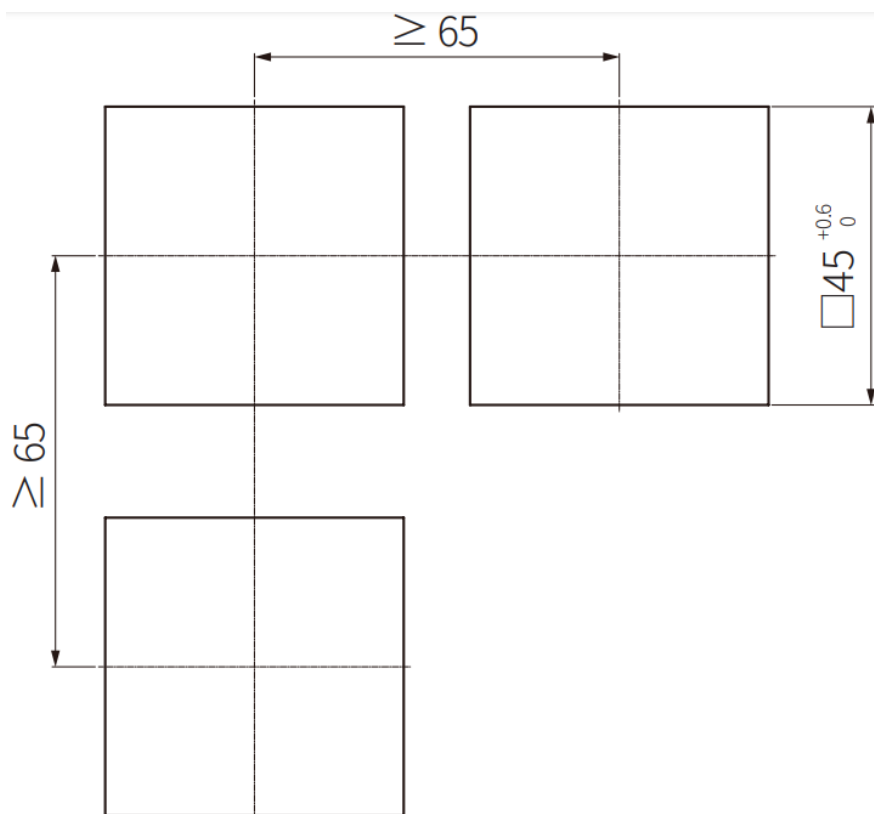
Unit: mm, For the detailed drawings, follow the Autonics website



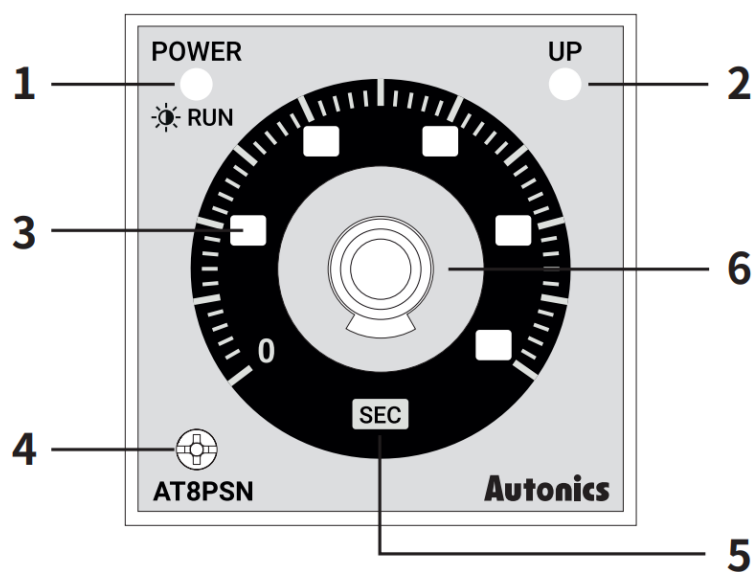
BRACKET



PANEL CUT-OUT

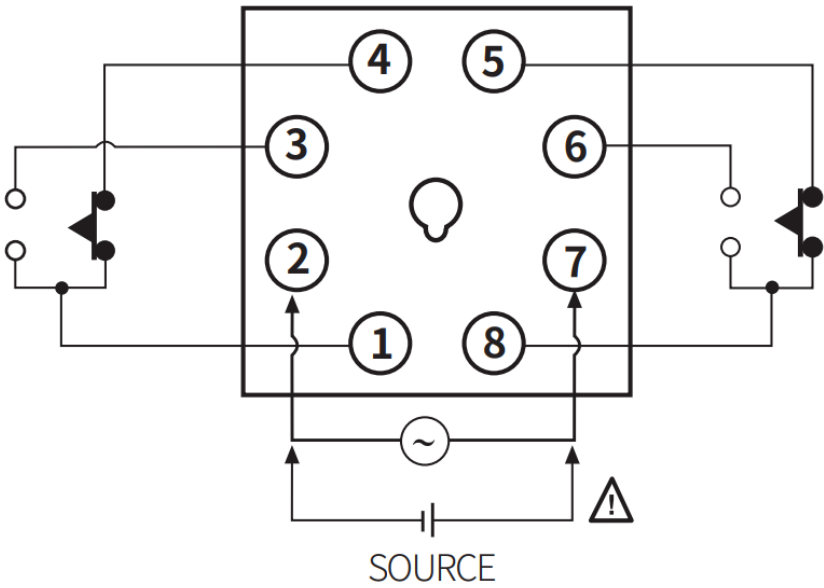


UNIT DESCRIPTIONS



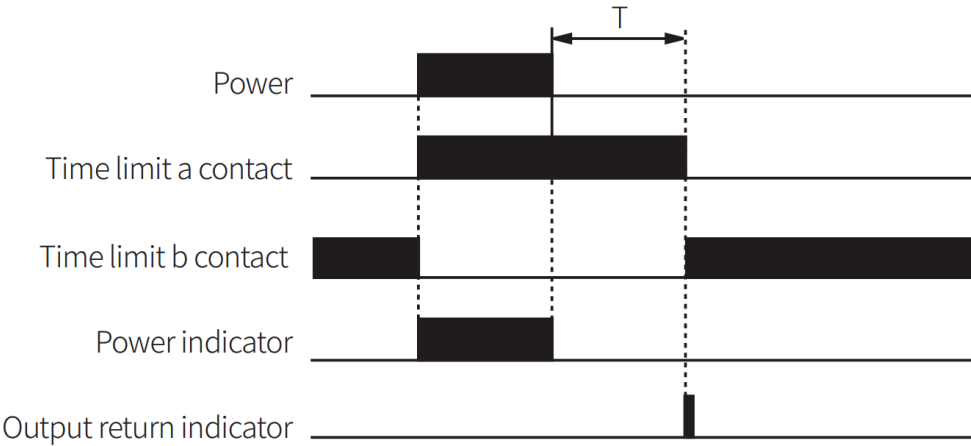
No.	Name
1	Power indicator
2	Output return indicator
3	Time range display part
4	Time range setting switch
5	Time unit display part
6	Dial for the time setting

CONNECTIONS



OPERATION TIMING CHART

A contact will be ON simultaneously when supplying the power. The a contact will be OFF after T is passed. Memory retention function: Even though the setting time is changed after turning off the power, the time limit a contact will be OFF after the previous setting time.




SPECIFICATIONS

Model	AT8P□	AT8P□-2	AT8P□-6	AT8P□-7
Function	Power OFF Delay			
Time operation	Power OFF Start			
Control output	Relay			
Contact type	Time limit DPDT (2c)			
Contact capacity	250 VAC 3 A, 30 VDC 3 A resistive load			
Error	Repeat: $\leq \pm 0.2\% \pm 10$ ms SET: $\leq \pm 5\% \pm 50$ msVoltage: $\leq \pm 0.5\%$ Temp.: $\leq \pm 2\%$			
Approval				
Unit weight	≈ 100 g			

Power supply	200 – 240 VAC ± 1 0%,50 / 60 Hz	24VAC $\pm 10\%$ 50/60 Hz,24VDC $\pm 10\%$	100 – 120 VAC ± 1 0%,50 / 60 Hz	100 / 110 VDC ± 10 %
Power consumption	AC: ≤ 1.5 VA	AC: ≤ 0.2 VA DC: ≤ 0.2 W	AC: ≤ 1.5 VA	DC: ≤ 0.8 W
Insulation resistive	≥ 100 M Ω (500 VDC megger)			
Dielectric strength	2,000 VAC at 50 / 60 Hz for 1 min			
Noise immunity	± 2 kV square-wave noise by noise simulator (pulse width 1)			
Vibration	0.75 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 1 hour			
Vibration (malfunction)	0.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min			
Shock	300 m/s ² (≈ 30 G) in each X, Y, Z direction for 3 times			
Shock (malfunction)	100 m/s ² (≈ 10 G) In each X, Y, Z direction for 3 times			
Relay life cycle	Mechanical: $\geq 10,000,000$ operations Electrical: $\geq 100,000$ operations (250 VAC 3 A resistive load)			
Ambient temperature	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)			
Ambient humidity	35 to 85%RH, storage: 35 to 85%RH (no freezing or condensation)			

Documents / Resources

	Autonics TCD220054AA AT8PMN Series Power Off Delay Analog Timers [pdf] Instruction Manual TCD220054AA AT8PMN Series Power Off Delay Analog Timers, TCD220054AA, AT8PMN Series Power Off Delay Analog Timers, Power Off Delay Analog Timers, Off Delay Analog Timers, Delay Analog Timers, Analog Timers, Timers
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References

- [A autonics.com](https://www.autonics.com)

Manuals+.