

Autonics

POWER OFF DELAY TIMER

AT8PSN/AT8PMN SERIES

INSTRUCTION MANUAL



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

Safety Considerations

- ※ Please observe all safety considerations for safe and proper product operation to avoid hazards.
- ※ ⚠ Symbol represents caution due to special circumstances in which hazards may occur.
- 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.

- Warning**

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

AT	8	P	SN	-	
					Power supply
					Time unit
					Time operation
					Number of plug pins
					Item
					No mark
					2
					6
					7
					SN
					MN
					P
					8-pin plug type
					AT
					Analog Timer

※8-pin socket (PG-08, PS-08(N)) is sold separately.

※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).

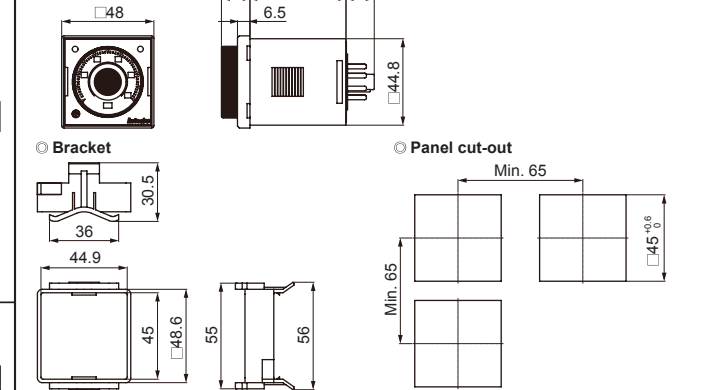
Specifications

Model	AT8PSN-□	AT8PMN-□
Function	Power OFF Delay	
Control time setting range※1	0.05 to 10 sec	0.05 to 10 min
Power supply	• 100-120VAC~ 50/60Hz • 24VAC~ 50/60Hz, 24VDC≡ universal • 200-240VAC~ 50/60Hz • 100/110VDC≡	
Allowable voltage range	90 to 110% of rated voltage	
Power consumption	• Max. 1.5VA (100-120VAC~) • Max. 1.5VA (200-240VAC~) • Max. 2VA (24VAC~), Max. 2W (24VDC≡) • Max. 0.8W (100/110VDC≡)	
Timing operation	Power OFF start	
Control output	Contact	Type
	Capacity	250VAC~ 3A, 30VDC≡ 3A resistive load
Relay	Mechanical	Min. 10,000,000 times
life cycle	Electrical	Min. 100,000 times (250VAC 3A resistive load)
Repeat error	Max. ±0.2% ±10ms	
Setting error	Max. ±5% ±50ms	
Voltage error	Max. ±0.5%	
Temperature error	Max. ±2%	
Insulation resistance	Over 100MΩ (at 500VDC megger)	
Dielectric strength	2,000VAC 50/60Hz for 1 minute	
Noise immunity	±2kV the square wave noise (pulse width: 1μs) by the noise simulator	
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hours
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 minutes
Shock	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction 3 times
	Malfunction	100m/s² (approx. 10G) in each X, Y, Z direction 3 times
Environ-ment	Ambient temp.	-10 to 55°C, storage: -25 to 65°C
	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH
Approval	CE, c, UL US	
Unit weight	Approx. 100g	

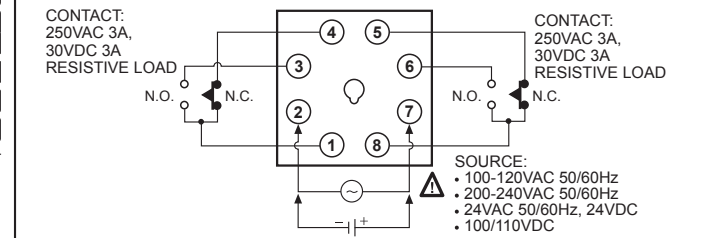
※1: Refer to time specifications for control time setting range.

※Environment resistance is rated at no freezing or condensation.

Dimensions



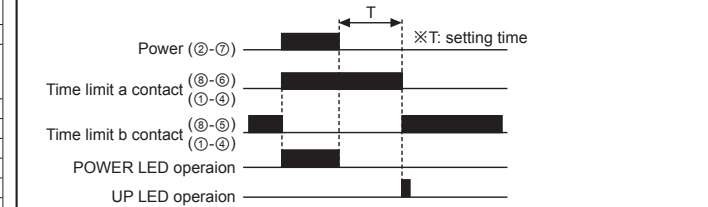
Connections



Output Operation mode and Time Specification

※ Contact a turns ON when the power applied and then turns off after setting time (T) is passed when the power off. There is memory protection function.

Even though changing setting time after cutting the power, time limit a contact turns OFF after the setting time before cutting the power.



Model	Time range	Time unit	Time setting range
AT8PSN-□	0.5	SEC	0 to 0.5 sec
	1		0 to 1 sec
	5		0 to 5 sec
	10		0 to 10 sec
AT8PMN-□	0.5	MIN	0 to 0.5 min
	1		0 to 1 min
	5		0 to 5 min
	10		0 to 10 min

Cautions during Use

- Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- 24VDC, 24VAC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- Supply power for over 0.1 sec for AT8PSN-□ and 2 sec for AT8PMN-□.
Since AT8PSN/PMN are Power Off Delay timer, they operate after turning of 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.
- 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.
- Change setting time(T1) or etc. after turning off the power of the timer.
- This product may be used in the following environments.
 - Indoors (in the environment condition rated in 'Specifications')
 - Altitude max. 2,000m
 - Pollution degree 2
 - Installation category II

Major Products

■ Photoelectric Sensors

■ Fiber Optic Sensors

■ Door Sensors

■ Door Side Sensors

■ Area Sensors

■ Proximity Sensors

■ Pressure Sensors

■ Rotary Encoders

■ Connector/Sockets

■ 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, Co., Nd: YAG)

■ Laser Welding/Cutting System

■ Temperature Controllers

■ Temperature/Humidity Transducers

■ SSRs/Power Controllers

■ Counters

■ Timers

■ Panel Meters

■ Tachometers/Pulse (Rate) Meters

■ Display Units

■ Sensor Controllers

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