Autonics

POWER OFF DELAY TIMER AT8PSN/AT8PMN SERIES

CE **. 71** us



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;

▲ 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. ▲ Caution: Injury or danger may occur under special conditions.

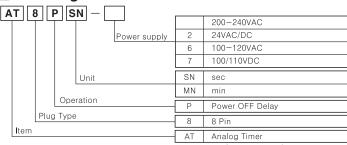
Marning

- 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 dregs into the unit.
- It may cause a fire or a malfunction,

Ordering information



※8 Pin socket(PG-08, PS-08): Sold separately

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

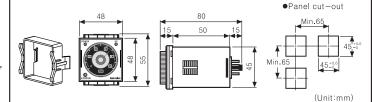
Features

- ●Control time range(PSN:0.05~10 sec., PMN:0.05~10 min.)
- Easy time setting and direct reading of a time range with simple adjustment.
- •Rated operated voltage: 100 to 120VAC 50/60Hz, 200 to 240VAC 50/60Hz.
- 100/110VDC, 24VAC 50/60Hz, 24VDC(Universal) •Usage: Automatically restarted circuit when power is restored after an momentary power failure.
- Specifications

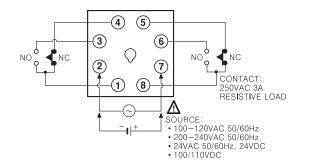
Model			AT8PSN-□	AT8PMN-□	
Function			Power OFF Delay		
Control time setting range			0.05 sec ~ 10 sec	0.05 min ~ 10 min	
Power supply			• 100-120VAC 50/60Hz • 24VAC 50/60Hz, 24VDC (Univ	• 200-240VAC 50/60Hz versal) • 100/110VDC	
Allowable voltage range			90 ~ 110% of rated voltage		
Power consumption			• 100-120VAC : 1.5VA • 24VAC : 0.2VA, 24VDC : 0.2V	• 200-240VAC : 1.5VA • 100/110VDC : 0.8W	
Control output	Contact	Type	Time limit DPDT(2c)		
		Capacity	250VAC 3A resistive load		
Relay			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. $\pm 5\%~\pm 50$ ms		
Voltage error			Max. ±0.5%		
Temperature error			Max. ±2%		
Insulation resistance			100MΩ(at 500VDC megger)		
Dielectric stength			2000VAC 50/60Hz for 1 minute		
Noise strength			Square-wave noise by noise simulator, apply ±2kV in power input terminals		
Vibration	Destruction		0.75mm amplitude at frequency of 10 to 55Hz 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		
	Malfunction		100m/s² (Approx. 10G) 3 times at X, Y, Z direction		
Environ	Ambient temperature		-10 ~ 55℃, Storage temperature: -25 ~ 65℃		
	Ambient humidity		35 ~ 85%RH, Storage Humidity: 35 ~ 85%RH		
Unit weight			Approx. 100g		

*Environment resistance is rated at no freezing or condensation

Dimensions

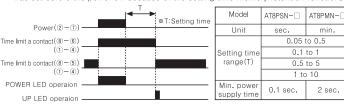


Connections



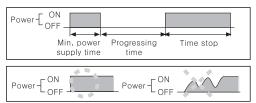
Operation and time specification

*"a" contact becomes on as soon as power is supplied, then becomes off when the setting time [T] is up after the power is turned off. Even though change the setting time after the power is off, time-Imit "a" contacts will be off after the setting time which was set before the power off because of the setting time memory retention function.



Caution for using

- (1) This product is power OFF delay timer, the min, power supplying time is 0.1 sec. for AT8PSN-□ and 2 sec. for AT8PMN-□.
- Therefore be sure that this product will operate after power off.
- @Please Please observe the allowable voltage range and apply or cut the power at once to prevent from chattering.



- 2. In case of 24VAC/DC, 100/110VDC model, isolated and limited voltage/current or Class 2 source should be provided for power supply.
- 3. When supplying the power to the timer with 100-120VAC or 200-240VAC, approx. 0.5A will flow for 0.5 sec.(AT8PMN-□), or for 0.05 sec.(AT8PSN-□). When supplying the power to the timer with 24VDC,100/110VDC approx. 1.5A will flow for 0.5 sec. (AT8PMN-□), or for 0.05 sec.(AT8PSN-□). Therefore be sure about the rating of contact and the power capacity
- 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.
- 3 Place where there are direct ray of the sun
- 4 Place where strong magnetic field or electric noise are generated
- 6. Installation environment
- 1 It shall be used indoor
- ②Altitude Max. 2000m
- 3 Pollution Degree 2
- 4 Installation Category II
- *It may cause malfunction if above instructions are not followed.

Maior products

■ Photoelectric sensors ■ Temperature controllers Fiber optic sensors Temperature/Humidity transducers Door sensors SSR/Power controllers

■ Door side sensors ■ Counters Area sensors ■ Timers Proximity sensors Panel meters

■ Pressure sensors ■ Tachometer/Pulse(Rate)meters Rotary encoders ■ Display units

Connector/Sockets Sensor controllers

- Switching mode power supplies Control switches/Lamps/Buzzers
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- Stepper motors/drivers/motion controllers
- Graphic/Logic panels
- Field network devices
- Laser marking system(Fiber, CO₂, Nd:YAG) Laser welding/soldering system

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