$W48 \times H48 \text{ mm}$

Power OFF Delay

Analog Timers

Autonics

• Observe all 'Safety Considerations' for safe and proper operation to avoid hazards.

- Λ symbol indicates caution due to special circumstances in which hazards may occur.
- **Warning** Failure to follow instructions may result in serious injury or death.
- 01. 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.
- 02. 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. **03. Install on a device panel to use.**
- Failure to follow this instruction may result in fire or electric shock.04. 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. **05. Check 'Connections' before wiring.**
- Failure to follow this instruction may result in fire.
- **06.** 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.
- 01. Use the unit within the rated specifications.
- Failure to follow this instruction may result in fire or product damage. **02. 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.
- 03. 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

Safety Considerations

- 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



AT8PSN / AT8PMN Series PRODUCT MANUAL

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Time setting range (AT8PSN: 0.05 to 10 sec, AT8PMN: 0.05 to 10 min)
- Simple time setup and direct read of time range
- Power supply
- : 100 120 VAC ~ 50 / 60 Hz / 200 240 VAC ~ 50 / 60 Hz / 100/110 VDC = / 24 VAC ~ 50 / 60 Hz, 24 VDC ==
- Application: Protect circuit when momentary power failure and start it again

Ordering Information

This is only for reference.

For selecting the specified model, follow the Autonics website.

| AT | 0 | 2 | 8 | - 4 |
|---|---|---|---|--|
| O Plug t 8: 8-pin p | | | | € Time unit SN: SEC MN: MIN |
| O Time operation P: Power OFF-delay | | | | ᢙ 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)

Instruction manual

Sold Separately

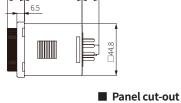
• 8-pin controller socket: PG-08, PS-08(N)

Dimensions

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

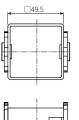
50





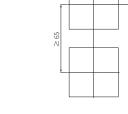
14.7

Bracket



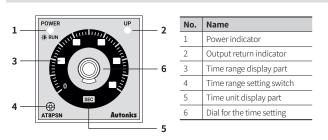


□45 ⁺⁰⁶



Unit Descriptions

60.3



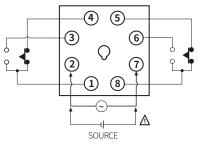
Time Range

| Display part | Unit | Range |
|--------------|-----------|----------|
| 0.5 | | 0 to 0.5 |
| 1 | SEC / MIN | 0 to 1 |
| 5 | | 0 to 5 |
| 10 | | 0 to 10 |

Connections

▲ Caution

: Refer to the 'specifications' for checking the power supply and control output.

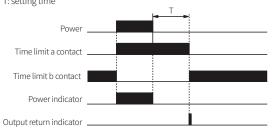


Operation Timing Chart

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.

• T: setting time



Specifications

| Model | AT8P | AT8P□-2 | AT8P□-6 | AT8P□-7 | |
|------------------|--|---------|---------|---------|--|
| Model | | | | | |
| 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 | $\begin{aligned} \text{Repeat:} &\leq \pm 0.2\% \pm 10\text{ms} \\ \text{SET:} &\leq \pm 5\% \pm 50\text{ms} \\ \text{Voltage:} &\leq \pm 0.5\% \\ \text{Temp:} &\leq \pm 2\% \end{aligned}$ | | | | |
| Certification | C € 坒 ӹ Я щ БП | | | | |
| Unit weight | $\approx 100 \mathrm{g}$ | | | | |

| Power supply | 200 - 240 VAC \sim 50 / 60 Hz | 24VAC~ 50/60Hz, 24VDC== | 100 - 120 VAC \sim 50 / 60 Hz | 100/110VDC== | | |
|------------------------------|---|--|---------------------------------|------------------|--|--|
| Permissible voltage range | 90 to 110 % of rated voltage | | | | | |
| Power consumption | AC: \leq 1.5 VA | $\begin{array}{l} \text{AC:} \leq 0.2 \text{ VA} \\ \text{DC:} \leq 0.2 \text{ W} \end{array}$ | AC: \leq 1.5 VA | DC: \leq 0.8 W | | |
| Insulation resistive | \geq 100 M Ω (500 VDC== megger) | | | | | |
| Dielectric strength | Between the charging part and the case: 3,000 VAC \sim at 50 / 60 Hz for 1 min | | | | | |
| Noise immunity | $\pm2\text{kV}$ square-wave noise by noise simulator (pulse width $1\mu\text{s})$ | | | | | |
| Vibration | 0.75 mm double amplitude at frequency of 10 to 55 Hz in each X, Y, Z direction for 1 hour | | | | | |
| Vibration (malfunction) | 0.5 mm double amplitude at frequency of 10 to 55 Hz in each X, Y, Z direction for 10 min | | | | | |
| Shock | $300 \text{ m/s}^2 (\approx 30 \text{ G})$ in each X, Y, Z direction for 3 times | | | | | |
| Shock (malfunction) | 100 m/s²(\approx 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 \sim 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) | | | | | |

Sold Separately: 8-pin Controller Socket

• For detailed information, refer to the 'PG Series, PS Series' manual.

| Appearance | Pins | Rated Voltage | Rated current | Feature | Model |
|------------|-------|------------------|-----------------------------|--|----------|
| | 8-pin | 250 VAC~ | 7 A (resistance load) | Controller sockets | PG-08 |
| | 8-pin | 250 VAC~ | 7 A (resistance load) | Controller sockets (DIN Rail / Panel) | PS-08(N) |