

Power OFF Delay Timer

DIN W48 × H48mm Solid-State, Power OFF Delay TIMER

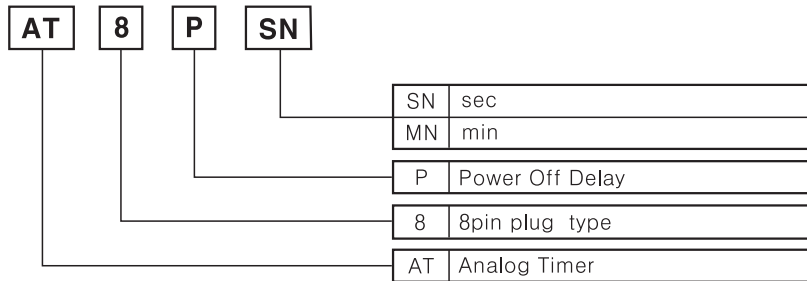
■ Features

- Time setting range
(AT8PSN : 0.5~10sec, AT8PM : 0.5~10min)
- It is available to read the setting time and time range with simple operation.
- Power supply : 100~120VAC 50/60Hz, 200~240VAC 50/60Hz
100/110VDC, 48VDC, 24VDC
- Application : Protect circuit when momentary power failure and start it again.



⚠ Please read "Caution for your safety" in operation manual before using.

■ Ordering information



■ Specifications

| Model | AT8PSN | AT8PMN |
|----------------------------|---|--|
| Function | Power OFF Delay | |
| Control time setting range | 0.5, 1, 5, 10sec | 0.5, 1, 5, 10min |
| Power supply | • 100~120VAC 50/60Hz • 200~240VAC 50/60Hz • 100/110VDC • 48VDC • 24VDC | |
| Allowable voltage range□ | 90 ~ 110% of rated voltage□ | |
| Power consumption | • Approx. 0.5VA (120VAC 60Hz), Approx. 0.9VA (240VAC 60Hz) • Approx. 0.5W (110VDC), Approx. 0.2W (48VDC), Approx. 0.1W (24VDC) | |
| Control output□ | Contact type | Time limit DPDT (2c) |
| | Contact capacity | 250VAC 3A resistive load |
| Relay life cycle | Mechanical | Min. 10,000,000 times |
| | Electrical | Min. 100,000 times (250VAC 3A resistive load) |
| Repeat error | Max. ±0.3% | |
| Setting error | Max. ±5% ±0.05sec. | |
| Voltage error | Max. ±0.5% | |
| Temperature error | Max. ±2% | |
| Insulation resistance | 100MΩ (at 500VDC) | |
| Dielectric strength | 2000VAC 50/60Hz for 1 minute | |
| Noise strength | ±2kV the square wave noise (pulse width: 1μs) by the noise simulator | |
| Vibration | Mechanical | 0.75mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 1 hours |
| | Malfuction | 0.5mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 10 minutes |
| Shock | Mechanical | 300m/s ² (Approx. 30G) in X, Y, Z directions 3 times |
| | Malfuction | 100m/s ² (Approx. 10G) in X, Y, Z directions 3 times |
| Ambient temperature | -10 ~ 55°C (at non-freezing status) | |
| Storage temperature | -25 ~ 65°C (at non-freezing status) | |
| Ambient humidity | 35 ~ 85%RH | |
| Unit weight | Approx. 98g | Approx. 105g |

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/Speed/Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

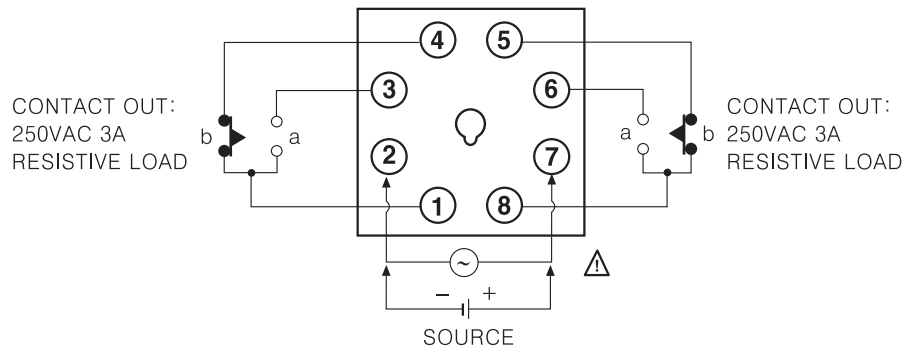
(N) Stepping motor & Driver & Controller

(O) Graphic panel

(P) Production stoppage models & replacement

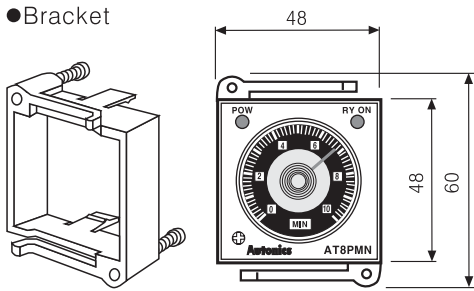
AT8PSN / AT8PMN

Connections

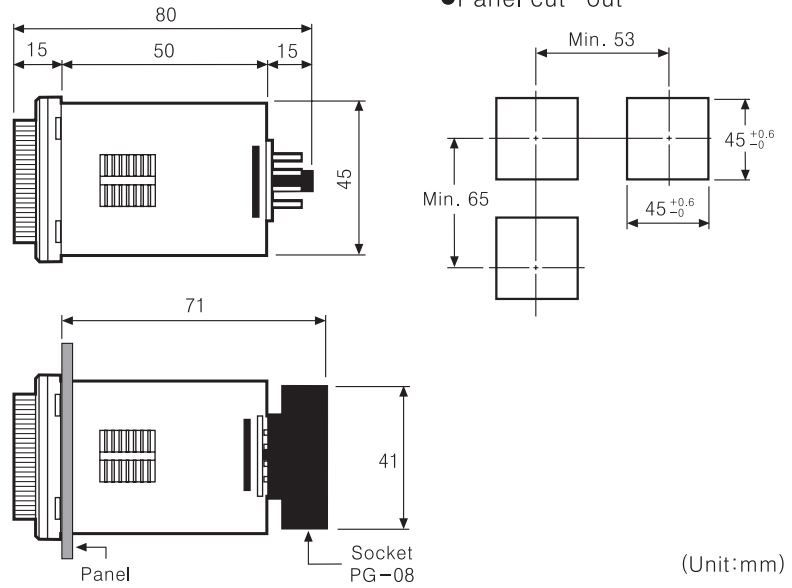


Dimensions

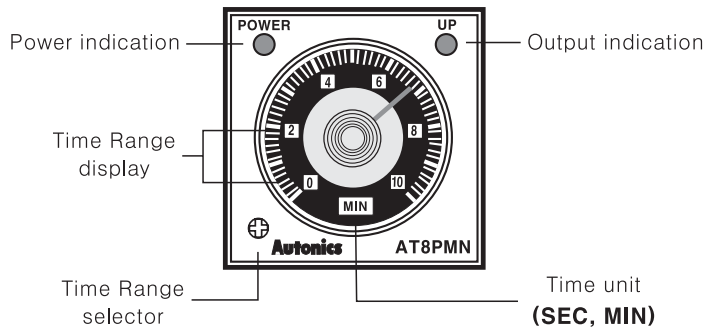
Bracket



Panel cut-out



Front panel identification

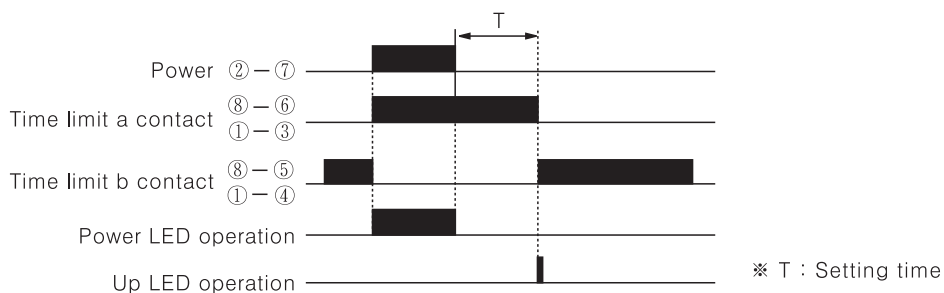


Time specification

| Unit | SEC | MIN |
|-------------------------------|---------|------|
| Setting time range(T) | 0 ~ 0.5 | |
| | 0 ~ 1.0 | |
| | 0 ~ 5 | |
| | 0 ~ 10 | |
| Min. time to supply the power | 0.1sec | 2sec |

Operation

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

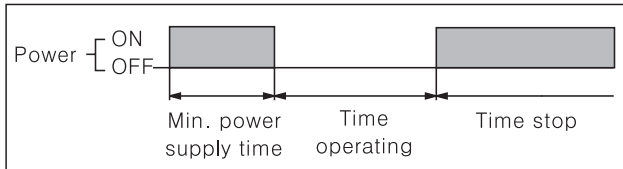


Power OFF Delay Timer

■ Proper usage

◎ Power

This product is power OFF delay timer, the time of min. power supply is 0.1sec. for AT8PSN type and 2sec. for AT8PMN. Therefore be sure that this product will operation after power off.



※ Please use the power within rating power and apply.

◎ Noise

- 1) We test 2kV, Pulse width $1\mu\text{s}$ against impulse voltage between power terminals and 1kV, Pulse width $1\mu\text{s}$ at noise simulator against external noise voltage. Please install MP condensor ($0.1\sim 1\mu\text{F}$) or Oil condensor between power teminals when over Impulse noise voltage occurs.
- 2) When testing dielectric voltage and insulation resistance of the control panel with this unit installed.
 - Please isolate this unit from the circuit of control panel.
 - Please make all terminals of this unit short-circuited.
(It prevents the damage of inner circuit.)

◎ Environment

Please avoid the following places:

- A place where this product may be damaged by strong impact or vibration.
- A place where corrosive gas or flammable gas, water, oil and dust exist.
- A place where magnetic and electrical noise occur.
- A place where high temperature and humidity are beyond rated specification.
- A place where there are strong alkalis and acids.
- A place where there are direct rays of sun.

(A)
Counter

(B)
Timer

(C)
Temp.
controller

(D)
Power
controller

(E)
Panel
meter

(F)
Tacho/
Speed/
Pulse
meter

(G)
Display
unit

(H)
Sensor
controller

(I)
Switching
power
supply

(J)
Proximity
sensor

(K)
Photo
electric
sensor

(L)
Pressure
sensor

(M)
Rotary
encoder

(N)
Stepping
motor &
Driver &
Controller

(O)
Graphic
panel

(P)
Production
stoppage
models &
replacement