No mark 200-240VAC

sec

min

24VAC/DC

100-120VAC

100/110VDC

Power OFF Delay

8-pin plug type

Analog Timer

2

6

7

SN

MN

Ρ

8

AT

## DIN W48×H48mm Solid-state, Power OFF Delay timer

#### Features

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

Power supply



Time unit

Time operation

Number of plug pins

Ordering information

AT | 8 | P | SN -







(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity

sens

(E) Pressure sensor

\_\_\_\_\_

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(l) SSR/

Power controller

(J) Counter

(K) Timer

(L) Panol

#### Specifications

Item

Sockets (PG-08, PS-08) are sold separately.

Model		ATS8PSN-	ATS8PMN-		meter		
Function		Power OFF Delay			(M)		
Control time setting range		0.05 to 10 sec.	0.05 to 10 min.		Speed/ Pulse		
Power supply		100-120VAC 50/60Hz  200-240VAC 50/60Hz  100/110VDC  24VAC 50/60Hz, 24VDC (universal)			(N)		
Allowable voltage range		90 to 110% of rated voltage			Display unit		
Power consumption		• 100-120VAC : 1.5VA • 100/110VDC : 0.8W • 24VDC : 0.2VA, 24VDC 0.2W			(O) Sensor		
Timing operation		Power OFF start type			controller		
Control	Contact type	Time limit DPDT(2c)    250VAC 3A resistive load			(P) Switching mode power		
output	Contact capacity						
Relay	Mechanical	Min.10,000,000 operations			supply		
life cycle	Electrical	Min. 100,000 operations(250VAC 3A resistive load)			(Q) Stepper		
Repeat error		Max. ±0.2 % ±10ms			motor& Driver&Control		
Setting error		Max. ±5% ±50ms			(R)		
Voltage error		Max. ±0.5%			Graphic/ Logic		
Temperature error		Max. ±2%			panel		
Insulation resistance		100MΩ(at 500VDC megger)			(S) Field network device		
Dielectric strength		2000VAC 50/60Hz for 1 minute					
Noise strength		$\pm 2kV$ 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 of X, Y, Z directions for 1 hours			(T) Software		
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10 minutes					
Shock	Mechanical	300m/s <sup>2</sup> (approx. 30G) in each of X, Y, Z directions 3 times			(U) Other		
	Malfunction	100m/s <sup>2</sup> (approx. 10G) in each of X, Y, Z directions 3 times					
Environ -ment	Ambient temperature	-10 to 55°C, storage: -25 to 65°C					
	Ambient humidity	35 to 85%RH					
Approval							
Accessory		Bracket					
Unit weight		Approx. 100g					

Environment resistance is rated at no freezing or condensation.



# AT8PSN / AT8PMN Series



#### Dimensions

#### Bracket

(unit: mm)



### Output operation mode

Time Range

selector

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.

Time unit

(SEC, MIN)

0 to 1.0 sec

0 to 5 sec 0 to 10 sec

0.1sec.

Setting time range(T)

Min. time to

supply the power

0 to 1.0 min

0 to 5 min

0 to 10 min

2sec.



Autoni

# Power OFF Delay Timer

(A) Photo electric sensor

(B) Fiber optic senso

(C) Door/Area

(D) Proximity

(E) Pressure

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/

Power controller

(J) Counter

(K) Timer

(L) Panel

mete

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching

mode powe supply

(Q) Stepper

motor& Driver&Co

(R) Graphic/ Logic panel

(S) Field network device

(T) Software

(U) Other

sens

senso

### Proper usage

- Power
- This product is power OFF delay timer, the time of min. power supply is 0.1sec. for AT8PSN- type and 2sec. operation after power off.
- · Please observe the allowable voltage range and apply or cut the power at once to prevent from chattering.



× Please use the power within rating power and apply.

- In case of 24VDC/DC, 100/110VDC model, isolated and limited voltage/current or Class 2 source should be provided for power supply.
- 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.
- When performing dielectric voltage test or insulation resistance test while the unit is installed on control panel,
- Please isolate this unit from the circuit of control panel.
- · Please make all terminals of this unit short-circuited.
- Do not use this unit at below places.
- Place where there are severe vibration or impact.
- · Place where strong alkalis or acids are used.
- · Place where there are direct rays of the sun
- · Place where strong magnetic field or electric noise are generated.
- Installation environment
- · It shall be used indoor
- Altitude Max. 2000m
- Pollution Degree 2
- Installation Category II