

AT8PSN / AT8PMN

DIN W48×H48mm Solid-state, power OFF delay timer

Upgrade

■ 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
- Application : Protect circuit when momentary power failure and start it again.



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



■ Ordering information

AT	8	P	SN	-	
					Power supply
					Time range
					Function type
					Plug type
					Item
					Blank
					2
					6
					7
					SN
					MN
					P
					8
					AT

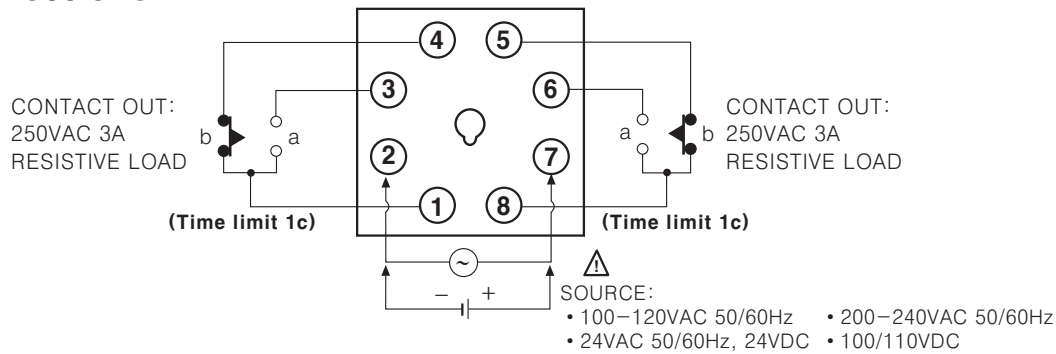
※Socket required : PG-08, PS-08

■ Specifications

Model		AT8PSN-□	AT8PMN-□
Function		Power OFF delay timer	
Control time setting range		0.05 to 10 sec.	0.05 to 10 min.
Power supply		• 100–120VAC 50/60Hz • 100/110VDC	• 200–240VAC 50/60Hz • 24VAC 50/60Hz, 24VDC
Allowable voltage range		90 to 110% of rated voltage	
Power consumption		• 100–120VAC : 1.5VA • 100/110VDC : 0.8W	• 200–240VAC : 1.5VA • 24VAC : 0.2VA, 24VDC : 0.2W
Timing operation		Power OFF start type	
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. ±0.2 % ±10ms	
Setting error		Max. ±5% ±50ms	
Voltage error		Max. ±0.5%	
Temperature error		Max. ±2%	
Insulation resistance		100MΩ (at 500VDC megger)	
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 to 55Hz in each of X, Y, Z directions for 1 hours	
	Malfunction	0.5mm amplitude at frequency of 10 to 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	
	Malfunction	100m/s ² (Approx. 10G) in X, Y, Z directions 3 times	
Ambient temperature		–10 to 55℃ (at non-freezing status)	
Storage temperature		–25 to 65℃ (at non-freezing status)	
Ambient humidity		35 to 85%RH	
Approval		CE c UL US	
Unit weight		Approx. 100g	

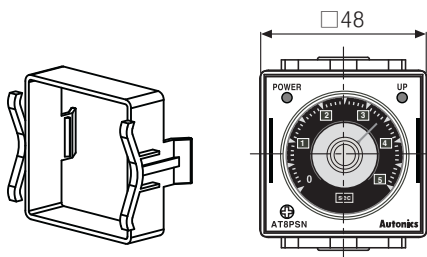
Power OFF Delay Timer

Connections

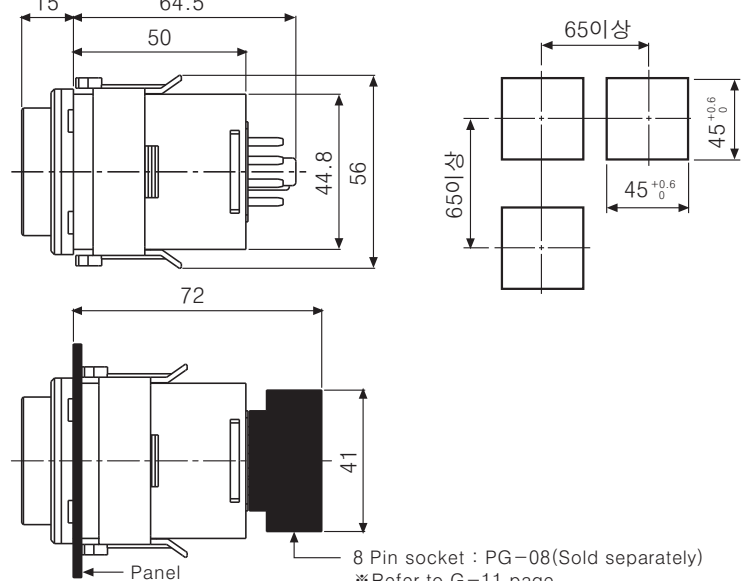


Dimensions

Bracket



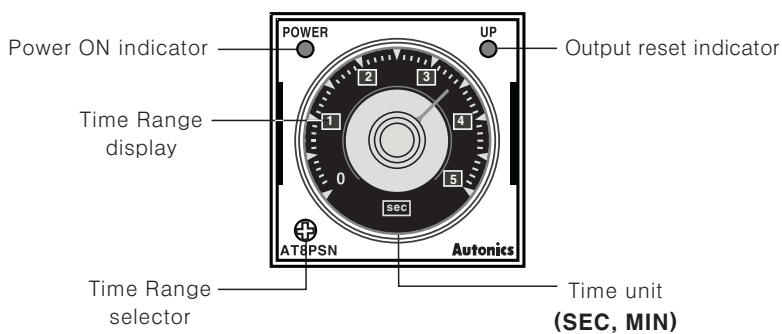
Panel cut-out



8 Pin socket : PG-08(Sold separately)
*Refer to G-11 page.

(Unit:mm)

Front panel identification

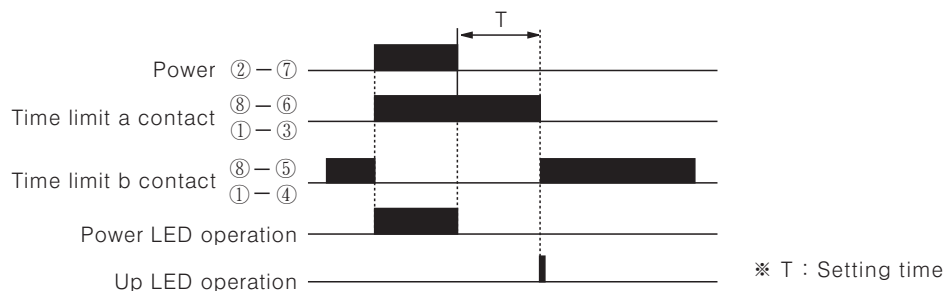


Time specification

Model	AT8PSN-□	AT8PMN-□
Unit	sec	min
Setting time range(T)	0 to 0.5 sec.	0 to 0.5 min.
	0 to 1.0 sec.	0 to 1.0 min.
	0 to 5 sec.	0 to 5 min.
	0 to 10 sec.	0 to 10 min.
Min. time to supply the power	0.1 sec.	2 sec.

Output operation mode

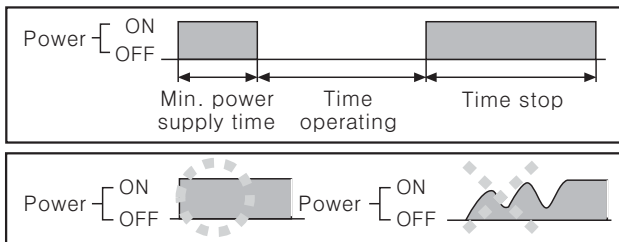
Contact a turns ON when the power applied and then turns off after setting time(T) is passed when the power off.



■ Proper usage

1) Power

- ① 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.
- ② 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.

- 2) In case of 24VDC/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,
 - 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.
 - 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.
- 6) Installation environment
 - It shall be used indoor
 - Altitude Max. 2000m
 - Pollution Degree 2
 - Installation Category II.