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

Please read "Safety Considerations" in operation manual before using.

■ Ordering Information

AT 8 P SN – □

Power supply	No mark	200-240VAC 50/60Hz
	2	24VAC 50/60Hz, 24VDC
	6	100-120VAC 50/60Hz
	7	100/110VDC
Time unit	SN	SEC
	MN	MIN
Time operation	P	Power OFF Delay
Number of plug pins	8	8-pin plug type
Item	AT	Analog Timer

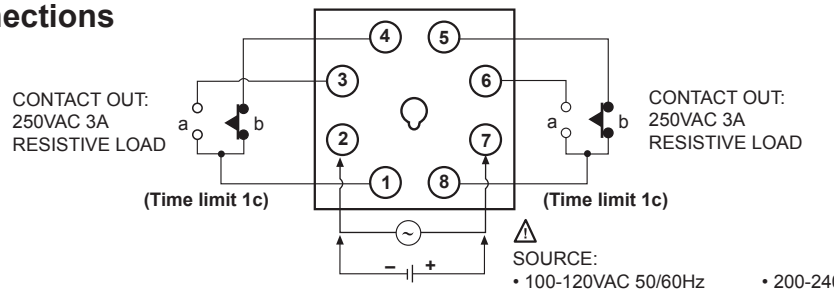
※Sockets (PG-08, PS-08(N)) are sold separately.

■ Specifications

Model		AT8PSN-□	AT8PMN-□
Function		**Power OFF Delay**	
Control time setting range※1		0.05 to 10 sec	0.05 to 10 min
Power supply		• 100-120VAC～ 50/60Hz • 200-240VAC～ 50/60Hz • 100/110VDC⎓ • 24VAC～ 50/60Hz, 24VDC⎓ universal	
Allowable voltage range		90 to 110% of rated voltage	
Power consumption		• Max. 1.5VA (100-120VAC～) • Max. 1.5VA (200-240VAC～) • Max. 0.8W (100/110VDC⎓) • Max. 0.2VA (24VDC⎓), Max. 0.2W (24VDC⎓)	
Timing operation		Power OFF start	
Control output	Contact type	Time limit DPDT (2c)	
	Contact capacity	250VAC～ 3A resistive load	
Relay life cycle	Mechanical	Min.10,000,000 operations	
	Electrical	Min. 100,000 operations (250VAC 3A resistive load)	
Repeat error		Max. ±0.2% ±10ms	
SET error		Max. ±5% ±50ms	
Voltage error		Max. ±0.5%	
Temperature error		Max. ±2%	
Insulation resistance		Over 100MΩ (at 500VDC megger)	
Dielectric strength		2,000VAC 50/60Hz for 1 minute	
Noise immunity		±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 X, Y, Z direction for 1 hours	
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min	
Shock	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction 3 times	
	Malfunction	100m/s² (approx. 10G) in each X, Y, Z direction 3 times	
Environment	Ambient temperature	-10 to 55℃, storage: -25 to 65℃	
	Ambient humidity	35 to 85%RH	
Approval		CE c UL us	
Accessory		Bracket	
Unit weight		Approx. 100g	

※1: Refer to time specifications for control time setting range.
※Environment resistance is rated at no freezing or condensation.

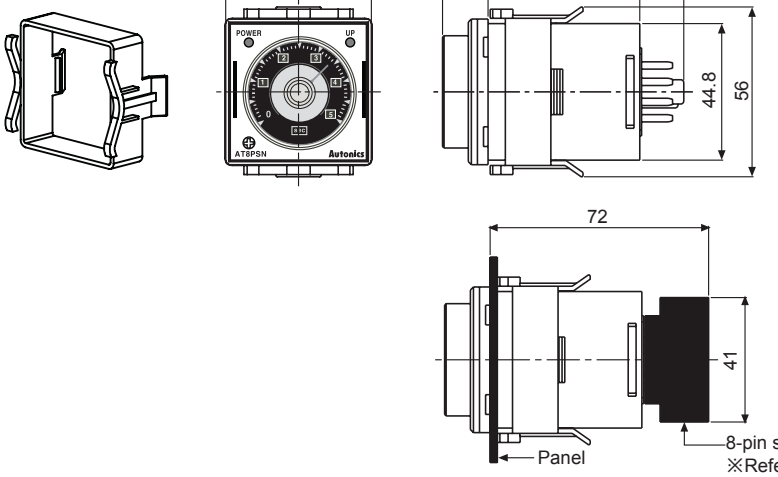
▣ Connections



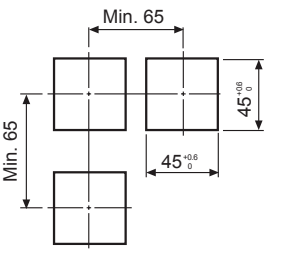
▣ Dimensions

(unit: mm)

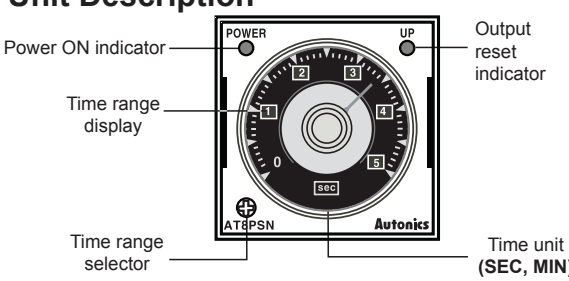
● **Bracket**



● **Panel cut-out**



▣ Unit Description

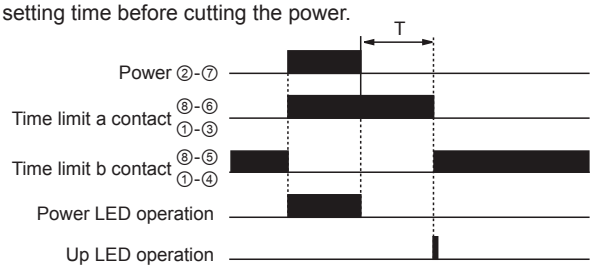


● **Time specifications**

Model	Time range	Time unit	Time setting range
AT8PSN-□	0.5	SEC	0 to 0.5 sec
	1		0 to 1 sec
	5		0 to 5 sec
	10		0 to 10 sec
AT8PMN-□	0.5	MIN	0 to 0.5 min
	1		0 to 1 min
	5		0 to 5 min
	10		0 to 10 min

▣ 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. 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.



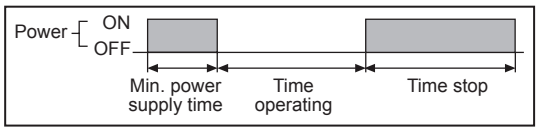
※T: Setting time

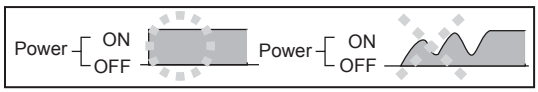
▣ Proper Usage

● Power

• The unit 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 the unit will 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.

● 24VDC, 24VAC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.

● 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 is severe vibration or impact.

• Place where strong alkalis or acids is used.

• Place where there is direct ray of the sun

• Place where strong magnetic field or electric noise is generated.

● This unit may be used in the following environments.

• Indoors

• Altitude: max. 2,000m

• Pollution degree 2

• Installation category II