Autonics

c **FN** us

MULTI FUNCTION TIMER AT8N SERIES

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Thank you very much for selecting Autonics products For your safety, please read the following before using.

Caution for your safety

*Please keep these instructions and review them before using this unit.

↑ Warning Serious injury may result if instructions are not followed.

△ Caution Product may be damaged, or injury may result if instructions are not followed.

*The following is an explanation of the symbols used in the operation manual. ⚠ Caution: Injury or danger may occur under special conditions.

∧ Warning

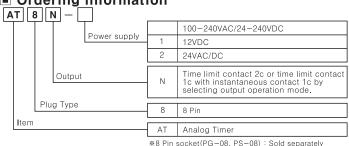
- 1. In case of using this unit with machineries(Nuclear power control, medical equipment, vehicle, train, airplane, combustion apparatus, entertainment or safety device etc), it is required to install fail-safe device, or contact us.
- It may cause a fire, human injury or property loss.
- 2. Install the unit on a panel. It may give an electric shock.
- 3. Do not connect, inspect or repair when power is on.
- It may give an electric shock.
- 4. Do not disassemble the case. Please contact us if it is required.

It may cause an electric shock or a fire

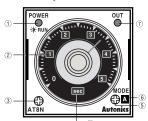
∧ Caution

- 1. This unit shall not be used outdoors.
- It might shorten the life cycle of the product or give an electric shock.
- 2. Please observe the rated specifications.
- t might shorten the life cycle of the product and cause a fire 3. Do not use beyond of the rated switching capacity of Relay contact.
- It may cause insulation failure, contact melt, contact failure, relay broken and fire etc.
- 4. In cleaning unit, do not use water or an oil-based detergent and use dry towels.
- It may cause an electric shock or a fire.
- 5. Do not use this unit in place where there are flammable or explosive gas, humidity, direct ray of the light, radiant heat, vibration and impact etc.
- It may cause a fire or an explosion 6. Do not inflow dust or wire dregs into the unit.
- It may cause a fire or a malfunction.

Ordering information

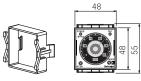


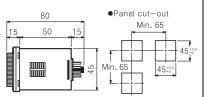
Front panel identification



- ①Operation/Power LED
- (Timer operation:Flicker, Timer stop:LED ON)
- ②Time range display
- 3Time range selector
- (4)Time unit(sec. min. hour. 10h)
- ⑤Operation mode selector
- A : Power ON Delay
- A1: Power ON Delay B : Power ON Delay 2
- ⊢F : Flicker
- F1 : Flicker 1
- L_I : Interval @Operation mode display(A, A1, B, F, F1, I)
- Output LED
- * The above specifications are subject to change and some models may be discontinued without notice.

Dimensions





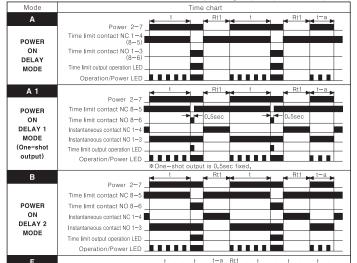
Time unit | Time setting range 0.5 0.05~0.5 sec 1.0 0.1~1.0 sec 0.5~5 sec 10 1~10 sec 0.5 0.05~0.5 min 1.0 0.1~1.0 min 5 0.5~5 min 10 1~10 min 0.5 0.1~1.0 hour 1.0 0.5~5 hour 5 10 1~10 hour 0.5 0.5~5 hour 1.0 1~10 hour 10h 5

Output operation mode

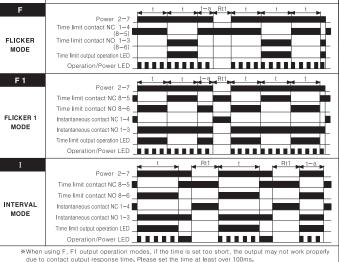
[t: Setting time t>t-a Rt:Return time Rt1>Rt

10~100 hour

10



(Unit:mm)



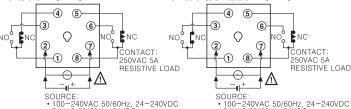
■ Time specifications ■ Specifications

eci	IICal	10115
		AT8N-□
ne setti	ng range	0.05 sec ~ 100 hour
pply		• 100-240VAC 50/60Hz, 24-240VDC (Universal) • 24VAC 50/60Hz, 24VDC (Universal) • 12VDC
voltag	ge range	90 to 110% of rated voltage
nsum	ption	• 100-240VAC : 4.3VA, 24-240VDC : 2W • 24VAC : 4.5VA, 24VDC : 2W • 12VDC : 1.5W
me		Max. 100ms
ontact	Туре	Time limit DPDT (2c) or Instantaneous SPDT(1c)+Time limit SPDT(1c) selectable according to output operation mode
	Capacity	250VAC 5A resistive load
		Min. 10,000,000 operations
Electrical		Min. 100,000 operations (at 250VAC 5A resistive load)
Repeat error		Max. ±0.2% ±10ms
rror		Max. ±5% ±50ms
error		Max. ±0.5%
ture e	rror	Max. ±2%
resist	tance	100MΩ(at 500VDC megger)
sten	gth	2000VAC 50/60Hz for 1 minute (Between all terminals and case)
Environ Ambient temperature		-10 ~ 55℃, Storage temperature: -25 ~ 65℃
-ment Ambient humidity		35 ~ 85%RH, Storage humidity: 35 ~ 85%RH
ght		Approx. 90g
ment	resistan	ce is rated at no freezing or condensation.
	woltagensum me ontact Mec Fleet rror rror error ture e resis sten mbient i	voltage range insumption me ontact Type Capacity Mechanical Electrical rror rror rror rror ture error ture error ture error ture error ture error ture terror

Connections

•[A], [F] output operation mode

•[A1], [B], [F1], [I] output operation mode



• 100-240VAC 50/60Hz, 24-240VDC • 24VAC 50/60Hz, 24VDC

• 100-240VAC 50/60Hz, 24-240VDC • 24VAC 50/60Hz, 24VDC

Caution for using

1. Please connect DC power input after checking polarity of power.

2. In case of 12VDC model, isolated and limited voltage/current or Class2 source should be provided for power

 When supply the power to the Timer, connection shown in Figure 1 might cause malfunction due to leakage current through R and C. Please connect R and C as shown

(Figure 2)

in Figure 2 to prevent malfunction. 4. It might cause malfunction if changing the setting time, time range or operation mode during operating unit Please change the setting time, time range or operation mode after cut the power off.

5. Do not use this unit at below places.

①Place where there are severe vibration or impact.

2Place where strong alkalis or acids are used 3Place where there are direct ray of the sun

Place where strong magnetic field or electric noise are generated.

Olt shall be used indoor

③Pollution Degree 2④Installation Category II 2 Altitude Max. 2000m

*It may cause malfunction if above instructions are not followed.

Major products

- Photoelectric sensors Temperature controllers
- Fiber optic sensors Temperature/Humidity transducers
- Door sensors SSR/Power controllers ■ Counters
- Door side sensors
- Area sensors Timers
- Proximity sensors Panel meters
- Tachometer/Pulse(Rate)meters Pressure sensors Connector/Sockets Sensor controllers
- Switching mode power supplies
- Control switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables
- Stepper motors/drivers/motion controllers
- Graphic/Logic panels
- Field network devices
- Laser marking system(Fiber, CO₂, Nd:YAG) I aser welding/soldering system

Autonics Corporation http://www.autonics.com

Satisfiable Partner For Factory Automation

■ HEAD QUARTERS:

18, Bansong-ro 513beon-gil, Haeundae-gu, Busan, Korea OVERSEAS SALES: #402-404, Bucheon Techno Park, 655, Pyeongcheon-ro.

Wonmi-gu, Bucheon, Gyeonggi-do, Korea TEL: 82-32-610-2730 / FAX: 82-32-329-0728

■ E-mail: sales@autonics.com

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