Autonics

MULTI FUNCTION TIMER AT8N SERIES

INSTRUCTION MANUAL

€ c**FL**°us

Thank you for choosing our Autonics product.

Please read the following safety considerations before use.

Safety Considerations

*Please observe all safety considerations for safe and proper product operation to avoid hazards.

*Safety considerations are categorized as follows.

∆Warning Failure to follow these instructions may result in serious injury or death.

∆Caution Failure to follow these instructions may result in personal injury or product damage.

*The symbols used on the product and instruction manual represent the following ⚠ symbol represents caution due to special circumstances in which hazards may occur.

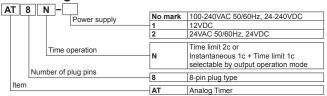
△ Warning

- 1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.) Failure to follow this instruction may result in fire, personal injury, or economic loss.
- 2. Install on a device panel to use.
- Failure to follow this instruction may result in electric shock or fire 3. Do not connect, repair, or inspect the unit while connected to a power source.
- Failure to follow this instruction may result in electric shock or fire.
- 4. Check 'Connections' before wiring.
- Failure to follow this instruction may result in fire
- 5. Do not disassemble or modify the unit.
- Failure to follow this instruction may result in electric shock or fire.

▲ Caution

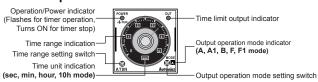
- Use the unit within the rated specifications.
- Failure to follow this instruction may result in fire or product damage
- 2. Use dry cloth to clean the unit, and do not use water or organic solvent. Failure to follow this instruction may result in electric shock or fire.
- 3. Do not use the unit in the place where flammable/explosive/corrosive gas, humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.
- Failure to follow this instruction may result in fire or explosion.
- 4. Keep metal chip, dust, and wire residue from flowing into the unit.
- Failure to follow this instruction may result in fire or product damage.

Ordering Information



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

Unit Description



Time Specifications

	•				
Time range	Time unit	Time setting range	Time range	Time unit	Time setting range
0.5	sec	0.05 to 0.5 sec	0.5	hour	0.05 to 0.5 hour
1.0		0.1 to 1 sec	1.0		0.1 to 1 hour
5		0.5 to 5 sec	5		0.5 to 5 hour
10		1 to 10 sec	10		1 to 10 hour
0.5	min	0.05 to 0.5 min	0.5	10h	0.5 to 5 hour
1.0		0.1 to 1 min	1.0		1 to 10 hour
5		0.5 to 5 min	5		5 to 50 hour
10		1 to 10 min	10		10 to 100 hour

- *The above specifications are subject to change and some models may be discontinued without notice
- *Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).

Dimensions

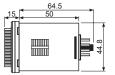


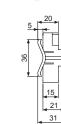
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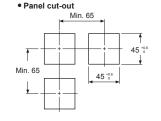
Bracket

Power ON

Delay 2







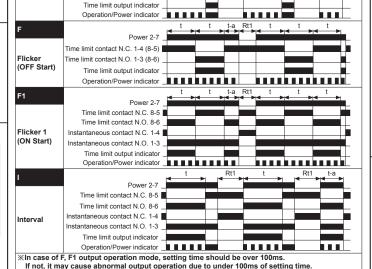
Output Operation Mode [t: Setting time, t>t-a, Rt: Return time, Rt1>Rt] Time chart Fime limit contact N.C. 1-4 (8-5) Power ON Time limit contact N.O. 1-3 (8-6) Delay Time limit output indicator Operation/Power indicator Power 2-7 Time limit contact N.C. 8-5 0.5sec Time limit contact N.O. 8-6 Power ON nstantaneous contact N.C. 1-4 Delay 1 nstantaneous contact N.O. 1-3 (One-shot Time limit output indicator output) Operation/Power indicator XOne-shot output is 0.5sec fixed

Power 2-7

Time limit contact N.C. 8-5

Time limit contact N O 8-6

nstantaneous contact N.C. 1-4



Specifications

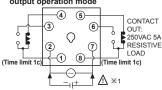
(unit: mm)

Model		AT8N-				
Function		Multi Function Timer				
Control time setting range*1		0.05 sec to 100 hour				
Power supply		•100-240VAC~ 50/60Hz, 24-240VDC= universal				
		•24VAC~ 50/60Hz, 24VDC= universal • 12VDC=				
Allowable voltage range		90 to 110% of the rated voltage				
Power consumption		•Max. 4.3VA (100-240VAC~), Max. 2W (24-240VDC)				
		•Max. 4.5VA (24VAC∼), Max. 2W (24VDC=) •Max. 1.5W (12VDC=)				
Return time		Max. 100ms				
Time operation		Power ON Start				
output	Contact type	Time limit DPDT (2c) or Instantaneous SPDT (1c)+Time limit SPDT (1c)				
		selectable by output operation mode				
	Contact capacity	250VAC∼ 5A resistive load				
Relay	Mechanical	Min. 10,000,000 operations				
life cycle	Electrical	Min. 100,000 operations (250VAC 5A 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		2,000VAC 50/60Hz for 1 minute				
Environ-	Ambient temp.	-10 to 55°C, Storage: -25 to 65°C				
ment	Ambient humid.	35 to 85%RH, Storage: 35 to 85%RH				
Approval		(€ c 2/2 05				
Accessory		Bracket				
Weight**2		Approx. 134.12g (approx. 86.71g)				
		ons for control time setting range by model.				
V/O TI	and reduced the self-reduced in the self-	the attention. The accordated to the accordance to the forecast transfer.				

X2: The weight includes packaging. The weight in parenthesis is for unit only.
XEnvironment resistance is rated at no freezing or condensation.

Connections

When selecting [A], [F] output operation mode



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output operation mode

• When selecting [A1], [B], [F1], [I]

X1: AC/DC voltage: 100-240VAC 50/60Hz, 24-240VDC : 24VAC 50/60Hz, 24VDC DC voltage: 12VDC

Cautions during Use

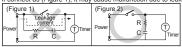
1. Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents.

2. 12VDC, 24VDC, 24VAC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.

3. When supplying or turning off the power, use a switch or etc. to avoid chattering

4. Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power

5. In order to avoid leakage current flowing, connect resistance and condenser as (Figure 2). If connect as (Figure 1), it may cause malfunction due to leakage current.



6. Keep away from high voltage lines or power lines to prevent inductive noise.

In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line.

Do not use near the equipment which generates strong magnetic force or high frequency noise.

Change setting time, time range, operation mode or etc. after turning off the power of the timer.
 This unit may be used in the following environments.

• Indoors (in the environment condition rated in 'Specifications')

3 Pollution degree 2 (4) Installation category

Major Products

■ Photoelectric Sensors
■ Fiber Optic Sensors
■ Door Sensors
■ Door Sensors
■ SSRs/Power Controllers Fiber Optic Sensors
Door Sensors
Door Side Sensors

Counters rea Sensors Proximity Sensors Timers Panel Meters Pressuré Sensors

Tachometers/Pulse (Rate) Meters Rotary Encoders onnector/Sockets

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)
■ Laser Welding/Cutting System

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CONTACT

250VAC 5A RESISTIVE

OUT: