

# ATS8W/ATS11W Series

## Twin Timer With Free Power, Compact Size W38×H42mm

### ■ Features

- Wide power supply range  
: 100-240VAC 50/60Hz, 24-240VDC universal, 24VAC 50/60Hz, 24VDC universal, 12VDC
- Various output operations (6 operation modes)
- Multi time range (12 types of time range)
- Twin timer to set ON/OFF time individually
- Close and DIN rail mounting  
with the dedicated socket (PS-M8) width 41mm (for ATS8W)
- Easy mounting and installation/maintenance with  
the dedicated bracket for DIN 48×48mm



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



### ■ Ordering Information

**ATS 8 W - 4 1**

Time range	1	Time range 1 (0.1 to 1)
	3	Time range 3 (0.3 to 3)
Power supply	1	12VDC
	2	24VAC 50/60Hz, 24VDC
	4	100-240VAC 50/60Hz, 24-240VDC
Time operation	W	Twin (flicker) operation
Number of plug pins	8	8-pin plug type
	11	11-pin plug type
Item	ATS	Compact Analog Timer

※8-pin socket (PG-08, PS-08(N), PS-M8) and 11-pin socket (PG-11, PS-11(N)) is sold separately.

### ■ Specifications

Model	ATS8W-□1	ATS11W-□1	ATS8W-□3	ATS11W-□3
Function	<b>ON/OFF Flicker operation</b>			
Control time setting range <sup>※1</sup>	0.1sec to 10hour		0.3sec to 30hour	
Power supply	•100-240VAC~ 50/60Hz, 24-240VDC≡ universal		•24VAC~ 50/60Hz, 24VDC≡ universal •12VDC≡	
Allowable voltage range	90 to 110% of rated voltage			
Power consumption	•Max. 4.2VA (100-240VAC~), Max. 2W (24-240VDC≡) •Max. 4.5VA (24VAC~), Max. 2W (24VDC≡) •Max. 1.5W (12VDC≡)			
Return time	Max. 100ms			
Timing operation	Power ON Start			
Control output	Contact type	Time limit DPDT (2c) or Instantaneous SPDT (1c)+Time limit SPDT (1c) selectable by output operation mode		
	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	ATS□W-1□ ATS□W-2□	±500V the square wave noise (pulse width 1μs) by noise simulator		
	ATS□W-4□	±2kV the square wave noise (pulse width 1μs) by noise simulator		
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1min) in each X, Y, Z direction for 1hour		
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1min) in each X, Y, Z direction for 10min		
Shock	Mechanical	300m/s <sup>2</sup> (approx. 30G) in each X, Y, Z direction 3 times		
	Malfunction	100m/s <sup>2</sup> (approx. 10G) in each X, Y, Z direction 3 times		
Environment	Ambient temp.	-10 to 55°C, storage: -25 to 65°C		
	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH		
Approval	CE c UL US			
Accessory	Bracket			
Weight <sup>※2</sup>	Approx. 100g (approx. 75g)			

※1: Refer to time specifications for control time setting range by model.

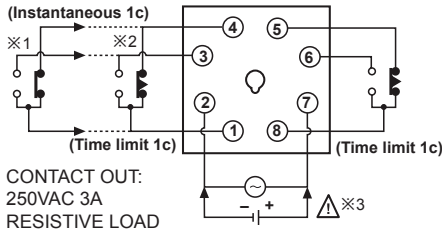
※2: The weight includes packaging. The weight in parenthesis is for unit only.

※Environment resistance is rated at no freezing or condensation.

# Compact Twin Analog Timer

## Connections

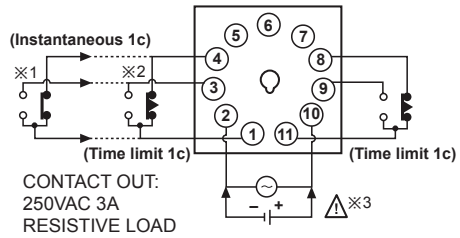
### ATS8W



CONTACT OUT:  
250VAC 3A  
RESISTIVE LOAD

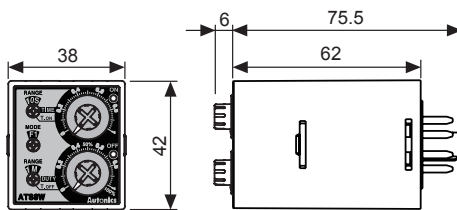
- ※1: When selecting [F2], [N2] output operation mode.
- ※2: When selecting [F1], [F3], [N1], [N3] output operation mode.
- ※3: AC/DC voltage: 100-240VAC 50/60Hz, 24-240VDC  
24VAC 50/60Hz, 24VDC  
DC voltage: 12VDC

### ATS11W



CONTACT OUT:  
250VAC 3A  
RESISTIVE LOAD

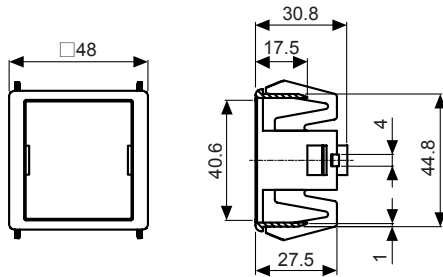
## Dimensions



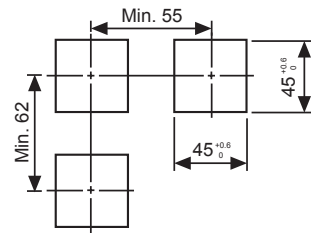
(unit: mm)

※8-pin socket (PG-08, PS-08(N), PS-M8) and 11-pin socket (PG-11, PS-11(N)) is sold separately  
Refer to the '(G)Connectors/Connector Cables/Sensor Distribution Boxes/Sockets'.

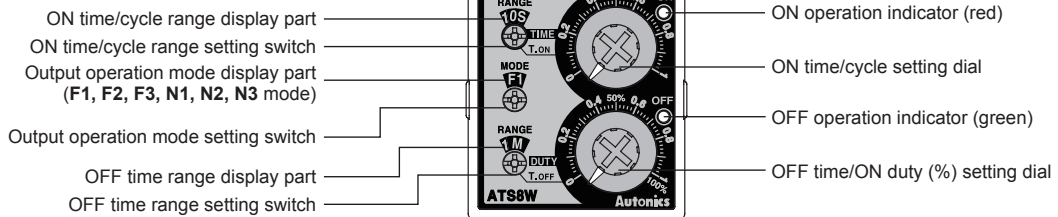
### Bracket



### Panel cut-out



## Unit Description



## Time Specifications

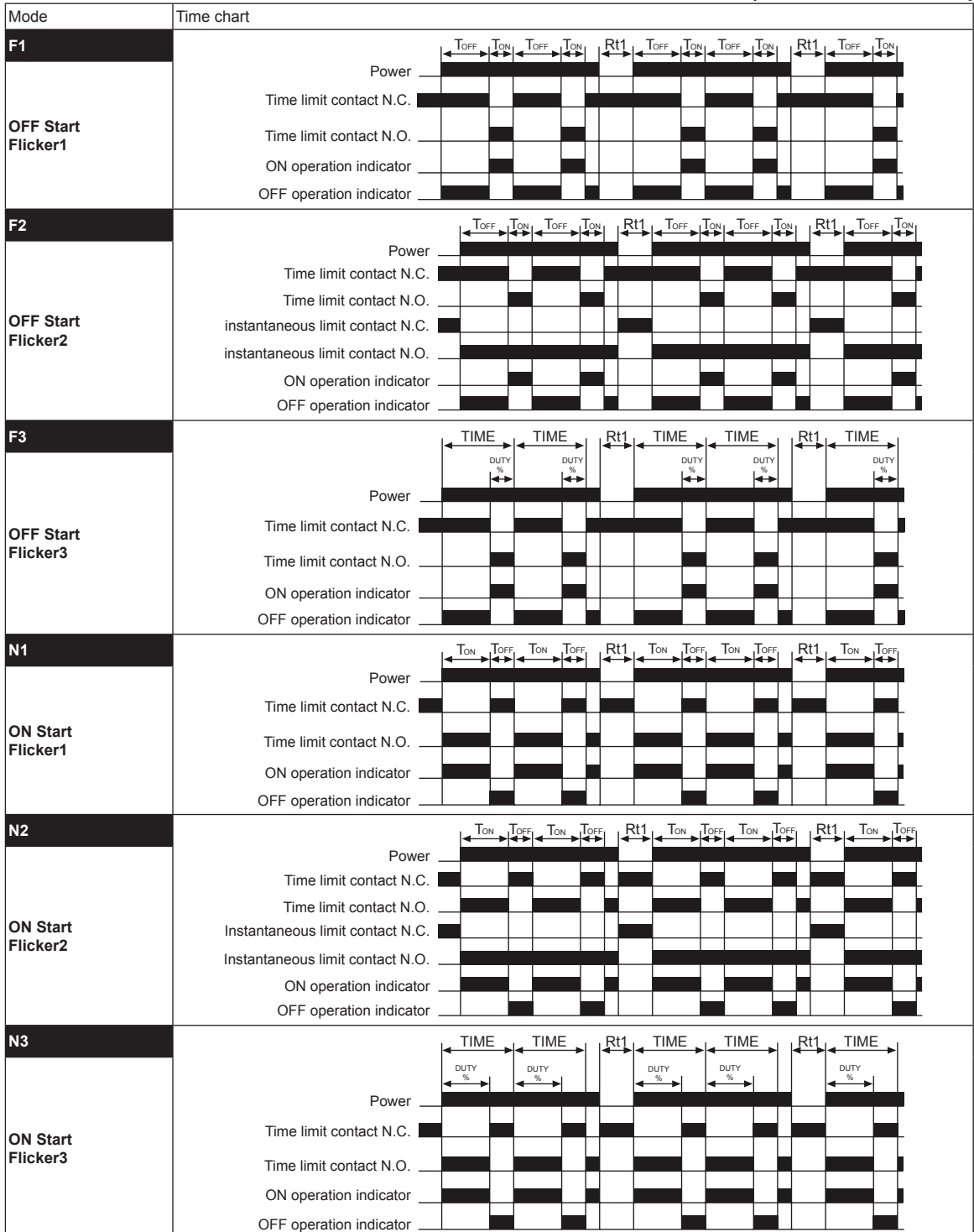
Model	Time range	Time unit	Time setting range
ATS□W-□1	1S	SEC	0.1 to 1sec
	10S		1 to 10sec
	1M	MIN	0.1 to 1min
	10M		1 to 10min
	1H		0.1 to 1hour
ATS□W-□3	10H	HOUR	1 to 10hour
	1S	SEC	0.3 to 3sec
	10S		3 to 30sec
	1M	MIN	0.3 to 3min
	10M		3 to 30min
1H	0.3 to 3hour		
10H	HOUR	3 to 30hour	

- (A) Photoelectric Sensors
- (B) Fiber Optic Sensors
- (C) Door/Area Sensors
- (D) Proximity Sensors
- (E) Pressure Sensors
- (F) Rotary Encoders
- (G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets
- (H) Temperature Controllers
- (I) SSRs / Power Controllers
- (J) Counters
- (K) Timers
- (L) Panel Meters
- (M) Tacho / Speed / Pulse Meters
- (N) Display Units
- (O) Sensor Controllers
- (P) Switching Mode Power Supplies
- (Q) Stepper Motors & Drivers & Controllers
- (R) Graphic/ Logic Panels
- (S) Field Network Devices
- (T) Software

# ATS8W/ATS11W Series

## Output Operation Mode

[ T<sub>ON</sub>: ON Setting time, T<sub>OFF</sub>: OFF Setting time, TIME: Cycle, DUTY: ON Time duty rate, Rt: Return time, Rt1>Rt ]



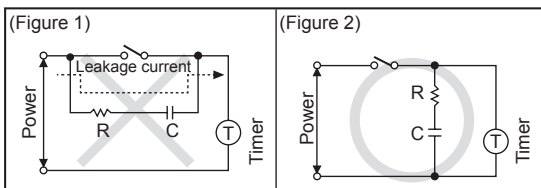
※Setting time should be over 100ms. If not, it may cause abnormal output operation due to under 100ms of setting time.

※[F3], [N3] mode operates flicker by setting cycle (time) and ON duty (%). ON time range changes to cycle (time) range and OFF time range changes to ON duty (%).

# Compact Twin Analog Timer

## ■ Proper Usage

- Connect DC power input after checking polarity of power.
- 12VDC, 24VDC, 24VAC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- When applying the power to the timer, apply the rated power at the moment by switch, relay, etc. Otherwise it might cause malfunction.
- [F3], [N3] mode operates flicker by setting cycle (time) and ON duty(%). ON time range changes to cycle (time) range and OFF time range changes to ON duty(%).
- When supply the power to the Timer, connection shown in (Figure 1) might cause malfunction due to leakage current through R and C. Connect R and C as shown in (Figure 2) to prevent malfunction.



- It might cause malfunction if changing the setting time, time range or operation mode during operating unit. Change the setting time, time range or operation mode after cut the power off.
- 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 ray of the sun.
  - Place where strong magnetic field or electric noise are generated.
- Installation environment
  - Indoors
  - Altitude max. 2,000m
  - Pollution degree 2
  - Installation category II

(A)	Photoelectric Sensors
(B)	Fiber Optic Sensors
(C)	Door/Area Sensors
(D)	Proximity Sensors
(E)	Pressure Sensors
(F)	Rotary Encoders
(G)	Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets
(H)	Temperature Controllers
(I)	SSRs / Power Controllers
(J)	Counters
(K)	<b>Timers</b>
(L)	Panel Meters
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