

# 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 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**

Item	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	
	ATS	Compact Analog Timer	

※8-pin socket (PG-08, PS-08(N), PS-08) and 11-pin socket (PG-11, PS-11(N)) are 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≡)			
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, 30VDC≡ 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.

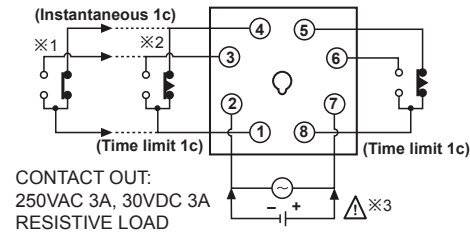
※2: The weight includes packaging. The weight in parenthesis is for unit only.

※Environment resistance is rated at no freezing or condensation.

# Compact Twin Analog Timer

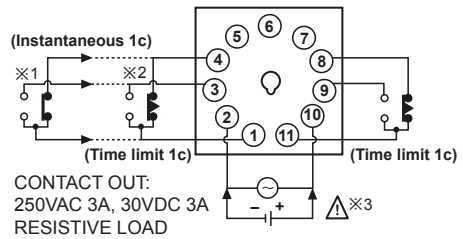
## ■ Connections

### ◎ ATS8W



※1: When selecting [F2], [N2] output operation mode.  
※2: When selecting [F1], [F3], [N1], [N3] output operation mode.

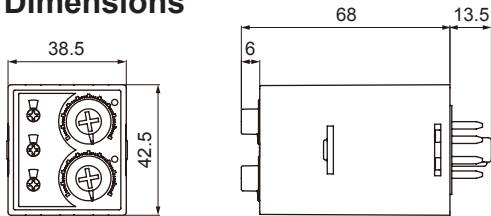
### ◎ ATS11W



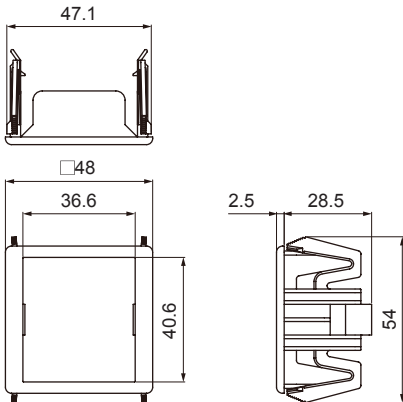
※3: AC/DC voltage: 100-240VAC 50/60Hz, 24-240VDC  
24VAC 50/60Hz, 24VDC  
DC voltage: 12VDC

## ■ Dimensions

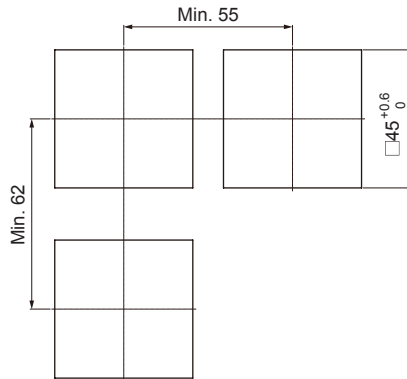
(unit: mm)



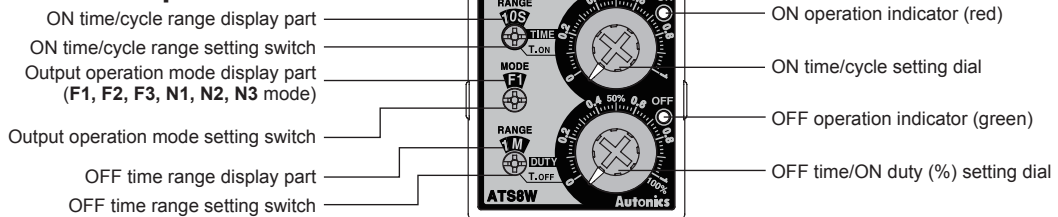
### ◎ Bracket



### ◎ Panel cut-out



## ■ Unit Description



## ■ Time Specifications

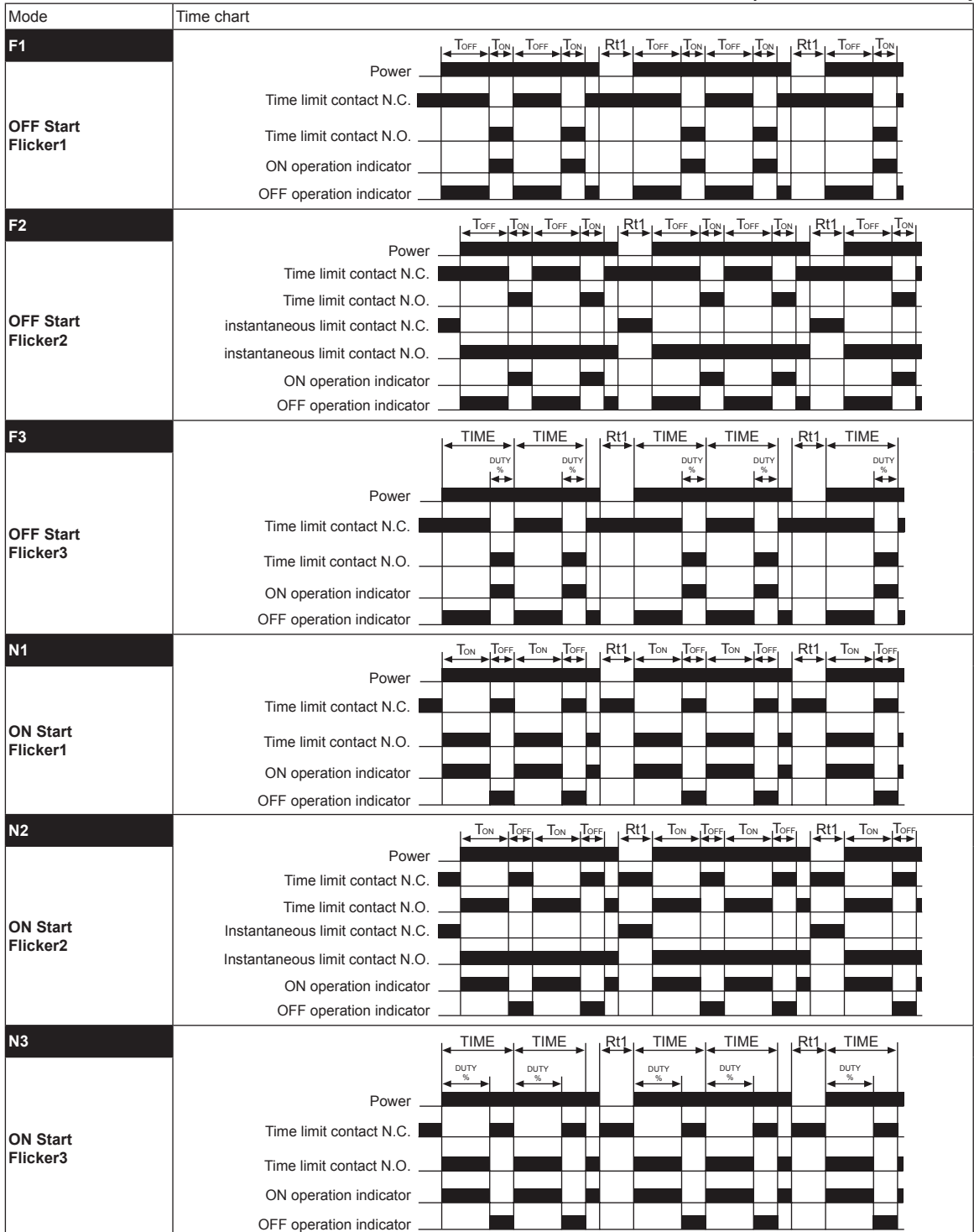
Model	Time range	Time unit	Time setting range	Model	Time range	Time unit	Time setting range
ATS□W-□1	1S	SEC	0.1 to 1sec	ATS□W-□3	1S	SEC	0.3 to 3sec
	10S		1 to 10sec		10S		3 to 30sec
	1M	MIN	0.1 to 1min		1M	MIN	0.3 to 3min
	10M		1 to 10min		10M		3 to 30min
	1H	HOUR	0.1 to 1hour		1H	HOUR	0.3 to 3hour
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



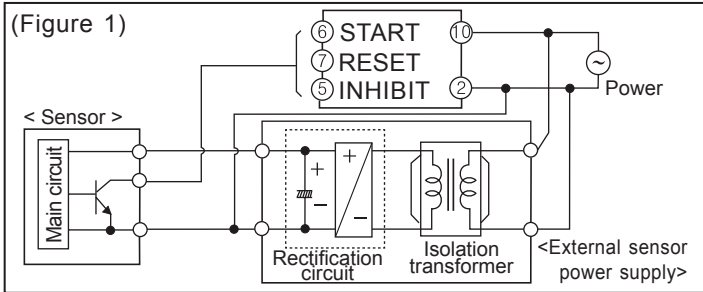
※Setting time should be over 100ms. If not, it may cause abnormal output operation due to under 100ms of setting time.

※[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 (%).

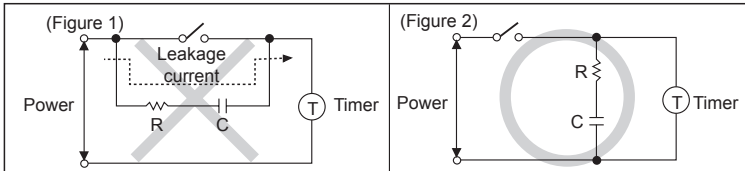
# Compact Twin Analog Timer

## ■ Proper Usage

- Follow instructions in 'Proper Usage'. Otherwise, it may cause unexpected accidents.
- 12VDC, 24VDC, 24VAC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- When supplying or turning off the power, use a switch or etc. to avoid chattering.
- Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.
- In order to block peripheral current, use isolation transformer which of secondary part is not grounded as (Figure 1) to supply power to the external input device.



- 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.



- Do not connect two or more timers with only one input contact or transistor simultaneously.
- 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.
  - ① Indoors (in the environment condition rated in 'Specifications')
  - ② Altitude max. 2,000m
  - ③ Pollution degree 2
  - ④ 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
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