

## 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 the instruction manual before using.**





### ■ Ordering Information

<b>ATS</b>	<b>8</b>	<b>W</b>	<b>—</b>	<b>4</b>	<b>1</b>	
						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-08) and 11-pin socket (PG-11, PS-11(N)) are sold separately.

### ■ Specifications

Model		ATS8W-□1	ATS11W-□1	ATS8W-□3	ATS11W-□3
Function		ON/OFF Flicker operation			
Control time setting range※1		0.1 sec to 10 hour		0.3 sec to 30 hour	
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, 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 min			
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 1 hour			
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1min) in each X, Y, Z direction for 10 min			
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  			
Accessory		Bracket			
Weight※2		Approx. 100g (approx. 75g)			

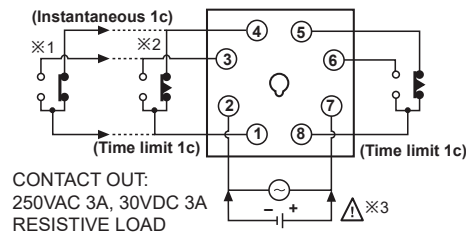
※1: Refer to time specifications for control time setting range by model.

※2: The weight includes packaging. The weight in parenthesis is for unit only. ※Environment resistance is rated at no freezing or condensation.

# ATS8W/ATS11W Series

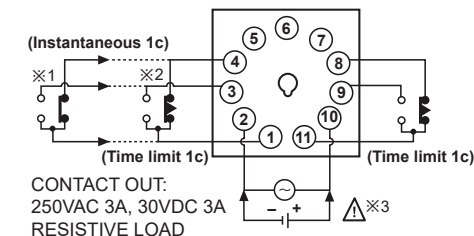
## ■ Connections

### ◎ ATS8W



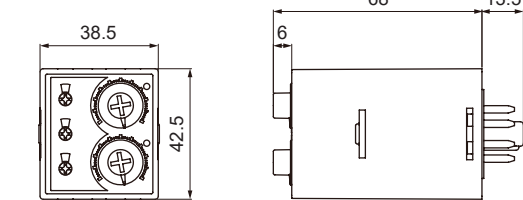
※1: When selecting [F2], [N2] output operation mode.  
※2: When selecting [F1], [F3], [N1], [N3] output operation mode.

### ◎ ATS11W



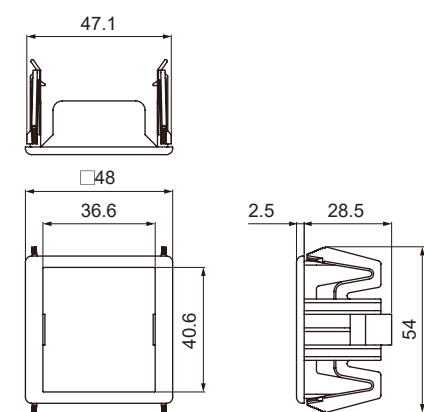
※3: AC/DC voltage: 100-240VAC 50/60Hz, 24-240VDC  
24VAC 50/60Hz, 24VDC  
DC voltage: 12VDC

## ■ Dimensions

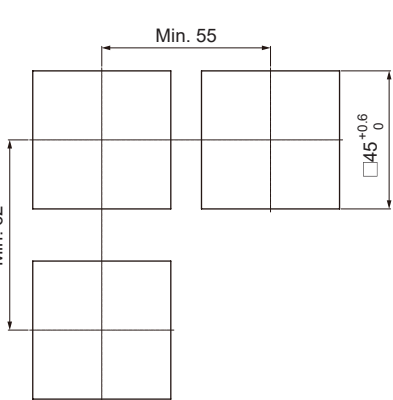


(unit: mm)

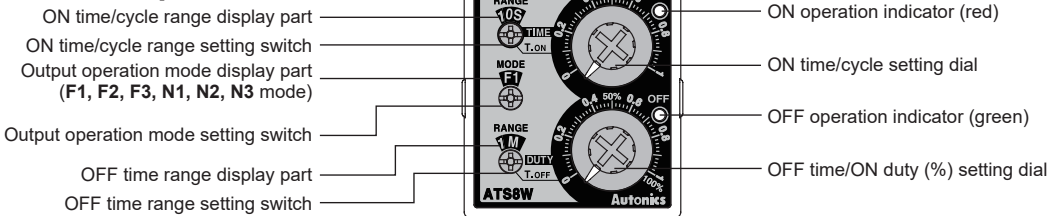
### ◎ Bracket



### ◎ Panel cut-out



## ■ Unit Description



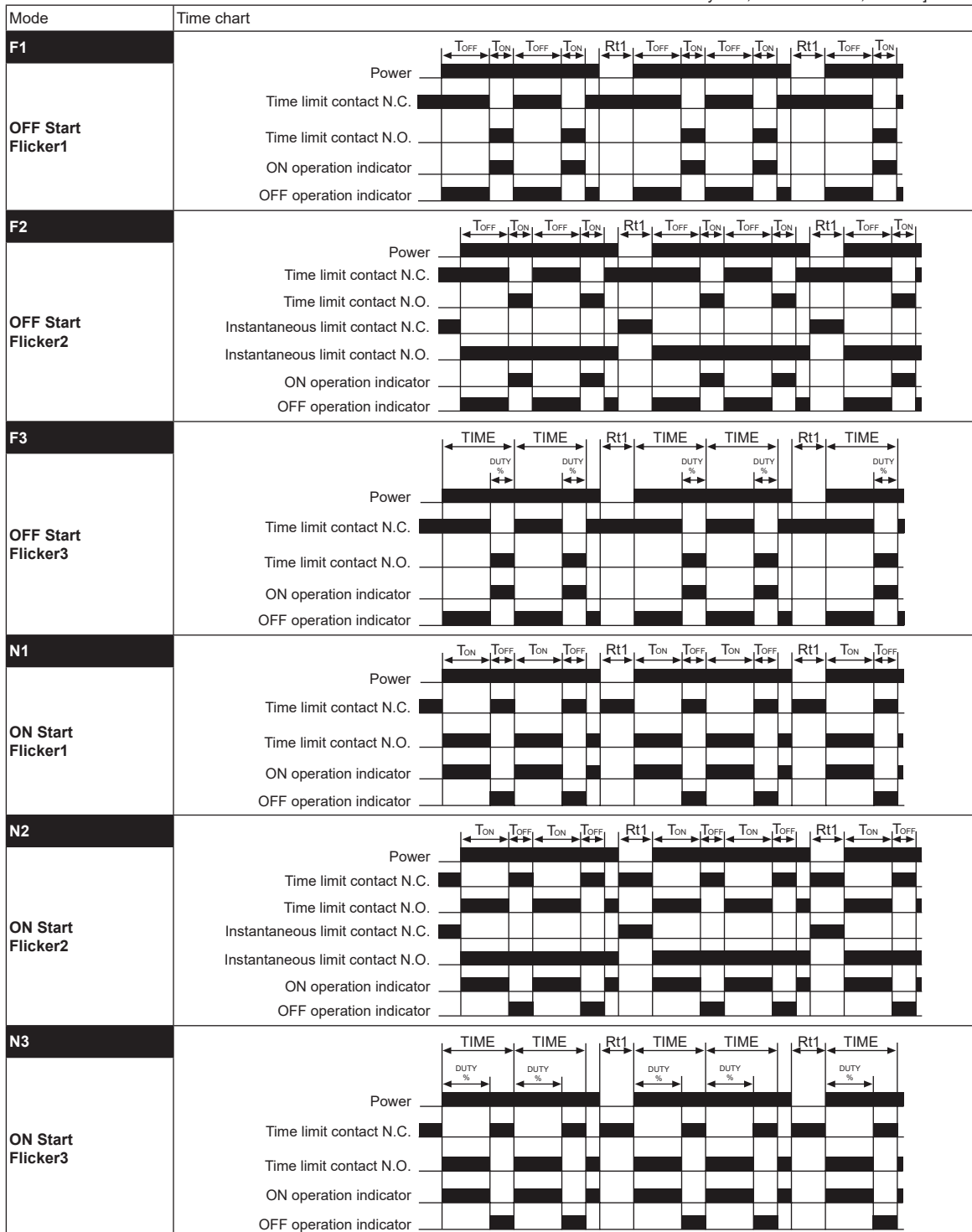
## ■ Time Specifications

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

# Compact Twin Analog Timer

## ■ 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, Rt>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 (%).

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J)  
Temperature  
Controllers

(K)  
SSRs

(L)  
Power  
Controllers

(M)  
Counters

(N)  
Timers

(O)  
Digital  
Panel Meters

(P)  
Indicators

(Q)  
Converters

(R)  
Digital  
Display Units

(S)  
Sensor  
Controllers

(T)  
Switching  
Mode Power  
Supplies

(U)  
Recorders

(V)  
HMIs

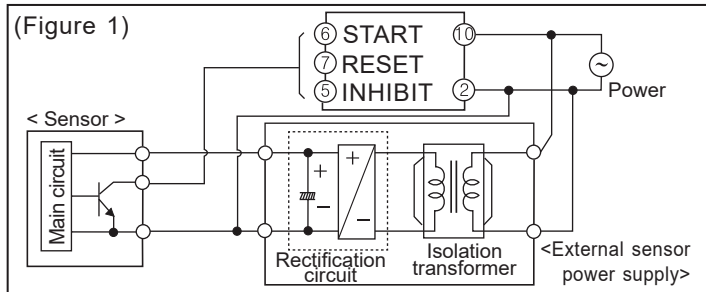
(W)  
Panel PC

(X)  
Field Network  
Devices

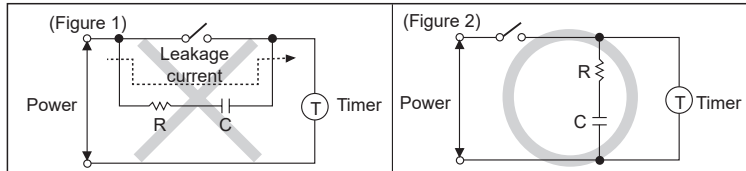
# ATS8W/ATS11W Series

## ■ 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