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 a dedicated socket (PS-M8) width 41mm
- Easy mounting and installation/maintenance with dedicated bracket for DIN 48×48mm



Please read "Caution for your safety" in operation manual before using.



Ordering information

ATS 8	$\mathbf{W} - \mathbf{W}$	4 1		(PG-08, PS-08, PS-M8, PG-11, PS-11) are sold separately.
		Time range	1	Time range 1(0.1 to 1)
			3	Time range 3(0.3 to 3)
		Power supply	1	12VDC
		1 Ower supply	2	24VAC / 24VDC
	Time operation Number of plug pins		4	100-240VAC / 24-240VDC
			W	Twin(Flicker) operation
			8	8-pin plug type
			11	11-pin plug type
Item	Item			Small Analog Timer

Specifications

Model		ATS8W-□1 ATS11W-□1	ATS8W-⊟3	ATS11W-⊟3			
Function		ON/OFF Flicker operation	•	•			
Control time setting range		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		•100-240VAC : 4.2VA, 24-240VDC : 2W •24VAC : 4.5VA, 24VDC : 2W •12VDC : 1.5W					
Return time		Max. 100ms					
Time operation		Power ON Start type					
Control	Contact type	Time limit DPDT(2c), Instantaneous SPDT(1c)+Time limit SPDT(1c) selectable according to output operation mode					
output	Contact capacity	250VAC 3A resistive load					
Relay life Mechanical		Min. 10,000,000 operations					
cycle	Electrical	Min. 100,000 operations(250VAC 3A resistive load)					
Repeat er	ror	Max. ±0.2% ±10ms					
Set error		Max. ±5% ±50ms					
Voltage error		Max. ±0.5%					
Temperature error		Max. ±2%					
Insulation resistance		100MΩ (at 500VDC megger)					
Dielectric strength		2000VAC 50/60Hz for 1 min.					
Noise resistance		±2kV the square wave noise (pulse width 1μs) by noise simulator					
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 1 hour					
Vibration	Malfunction	0.5mm mplitude at frequency of 10 to 55HHz(for 1 min.) in each of X, Y, Z directions for 10 min.					
Shock	Mechanical	300m/s² (approx. 30G) in each of X, Y, Z directions 3 times					
	Malfunction	100m/s² (approx. 10G) in each of X, Y, Z di	rections 3 times				
Environ- ment	Ambient temperature	-10 to 55°C, storage: -25 to 65°C					
	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH					
Approval		C € 2 2.2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3					
Accessory		Bracket					
Unit weigh	nt	Approx. 72g					
× Environ	ment resistanc	e is rated at no freezing or condensation.					

XEnvironment resistance is rated at no freezing or condensation.

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

> F) Rotary encoder

(G) Connector/

(H) Temp.

(I) SSR/ Power controller

(J) Counter

(K) Timer

L) Panel neter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

>) ensor entroller

(P) Switching mode power supply

tepper otor&

(R) Graphic/ Logic panel

S) ield etwork

.

) oftware

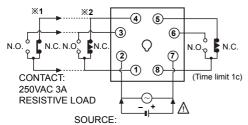
U) Other

ATS8W / ATS11W Series

Connections

O ATS8W

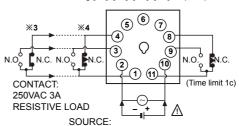
※1: When selecting [F2], [N2] output operation mode※2: When selecting [F1], [F3], [N1], [N3] output operation mode



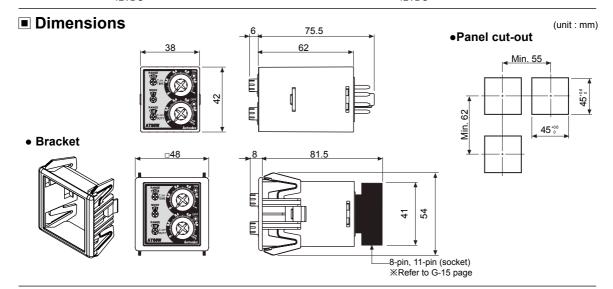
- •100-240VAC 50/60Hz, 24-240VDC
- •24VAC 50/60Hz, 24VDC
- •12V/DC

O ATS11W

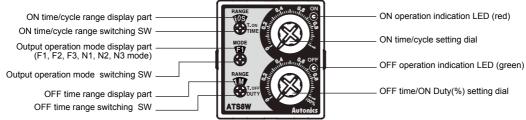
※3: When selecting [F2], [N2] output operation mode※4: When selecting [F1], [F3], [N1], [N3] output operation mode



- •100-240VAC 50/60Hz, 24-240VDC
- •24VAC 50/60Hz, 24VDC
- •12VDC



Parts description



XTurn the time range switching SW and output operation mode switching SW clockwise.

■ Time range

Time range	Time unit	ATS8W-⊡1 ATS11W-⊡1	ATS8W-□3 ATS11W-□3
		Setting time range	Setting time range
1S	000	0.1 to 1 sec	0.3 to 3 sec
10S	sec	1 to 10 sec	3 to 30 sec
1M	min	0.1 to 1 min	0.3 to 3 min
10M	min	1 to 10 min	3 to 30 min
1H	hour	0.1 to 1 hour	0.3 to 3 hour
10H	hour	1 to 10 hour	3 to 30 hour

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Small Twin Timer

Output operation mode [T_{ON} : ON setting time, T_{OFF} : OFF setting time, TIME : Cycle, (A) Photo electric sensor DUTY: ON Time duty rate, Rt: Return time, Rt1>Rt] Time chart (B) Fiber optic sensor F1 Toff Time limit contact N.C. (C) Door/Area OFF Time limit contact N O Start Flicker1 ON operation LED LED (D) Proximity OFF operation LED LED (E) Pressure F2 Toff Power Time limit contact N.C. Time limit contact N.O. OFF Instant limit contact N.C. Start Flicker 2 Instant limit contact N.O. ON operation LED LED OFF operation LED LED F3 TIME TIME TIME TIME Rt1 TIME Ŗt1 (I) SSR/ Power OFF Time limit contact N.C. Start Time limit contact N.O. Flicker 3 ON operation LED LED (K) Timer OFF operation LED LED TON TOFF N1 Ton (M) Tacho/ Speed/ Pulse meter Time limit contact N.C. ON Time limit contact N.O Start Flicker 1 (N) Display unit ON operation LED LED OFF operation LED LED N2 TON TOFF TON TOFF Rt1 TON TOFF TON TOFF Power Time limit contact N.C. (P) Switching mode powe supply Time limit contact N.O. ON Instant limit contact N.C. Start Flicker 2 Instant limit contact N.O. motor& Driver&Co ON operation LED LED (R) Graphic/ Logic panel OFF operation LED LED N3 TIME TIME TIME TIME TIME Rt1 Rt1 DUTY DUTY DUTY DUTY Power ON Time limit contact N.C. Start Flicker 3 Time limit contact N.O. ON operation LED LED (U) Other

XIf the time is set too short, the output may not work properly due to contact output response time. Please set the time at least over 100ms.

OFF operation LED LED

※F3, N3 mode operates fliker by setting cycle(TIME) and ON Duty(%). ON time range changes to cycle(TIME) range and OFF time range changes to ON Duty(%).

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ATS8W / ATS11W Series

Proper usage

Terminal connection

- Refer to the connection diagrams and wire it correctly.
- Power connection

For power connection of ATS8W/ATS11W Series , when it is AC power, connect it to the designated power terminal regardless of polarity. When it is DC power, be sure that the polarity for connecting.

Power supply	8-pin type	11-pin type
AC Type	Terminal ② - ⑦	Terminal ② - ⑩
		Terminal $@ \leftarrow \ominus$ Terminal $@ \leftarrow \ominus$

- Turn OFF a power switch and be sure that not to supply induced voltage, residual voltage between timer power terminals. (When wiring power cable parallel with high voltage line, power line, induced voltage may occur between power terminals.)
- For DC power, ripple should be below 10% and power voltage should be within the allowable range.
- Use contact such as switch, relay, etc to supply power voltage at once. If supplying power slowly, its time may be up regardless of set value or power may be not reset.
- Load for control output should be below the rated load capacity.

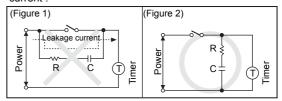
Changing of set time, time range, operation mode

It may cause malfunction when changing set time, time range, or operation mode during timer operation. Turn OFF the power and change set time, time range, or operation mode.

O Common

- Be sure that when using a timer at high temperature for a long time, it may cause deterioration for inner parts(electrolytic condenser, etc.).
- When supplying the power to timer, do not wire it as (Figure 1). This wiring causes timer malfunction due to path of peripheral leakage current from resistance and condenser.

Connect resistance and condenser as (Figure 2) to prevent from timer malfunction by peripheral leakage current



- Do not use this unit at below places.
- Place where temperature or humidity is out of the rated specifications.
- Place where there is condensation by temperature changes
- · Place where flammable gas or corrosive gas.
- Place where there are dust, oil or 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.

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