




# Multi Function Analog Timer

## Specifications

Model	AT8N-□	AT11DN-□	AT11EN-□
Dielectric strength	2,000VAC 50/60Hz for 1 minute		
Noise immunity	AT□□-1	±500V the square wave noise (pulse width 1μs) by noise simulator	
	AT□□-2	±500V the square wave noise (pulse width 1μs) by noise simulator	
	AT□□	±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 temperature	-10 to 55°C, storage: -25 to 65°C	
	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH	
Approval	CE  us		
Accessory	Bracket		
Weight <sup>※2</sup>	Approx. 134.12g (approx. 86.71g)	Approx. 132.2g (approx. 85g)	Approx. 134.7g (approx. 87.5g)

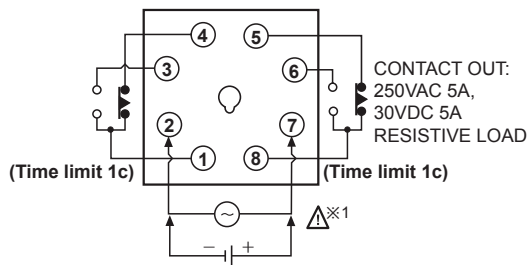
※2: The weight includes packaging. The weight in parenthesis is for unit only.

※Environment resistance is rated at no freezing or condensation.

## Connections

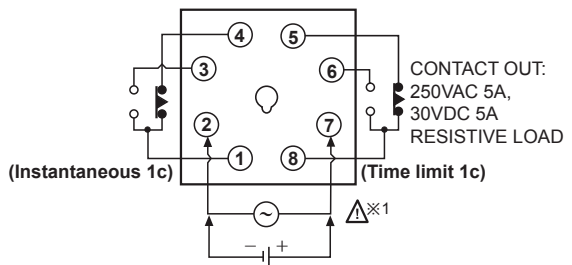
### ○ AT8N

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

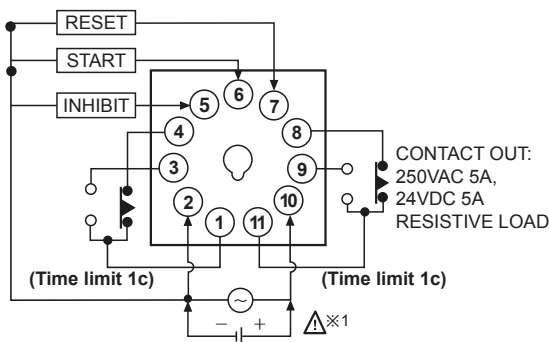


※1: AC/DC voltage: 100-240VAC 50/60Hz, 24-240VDC  
: 24VAC 50/60Hz, 24VDC  
DC voltage:12VDC

- When selecting [A1], [B], [F1], [I] output operation mode

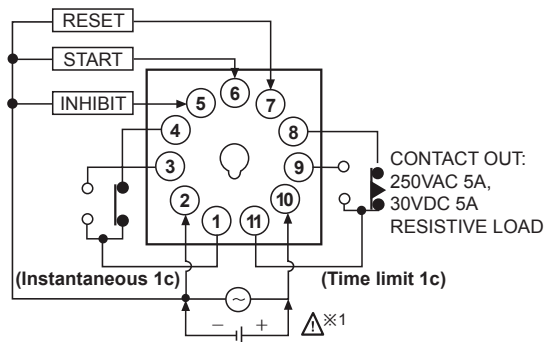


### ○ AT11DN



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

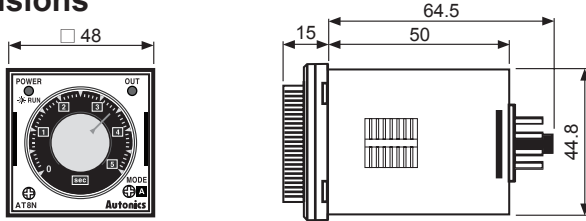
### ○ AT11EN



(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

# ATN Series

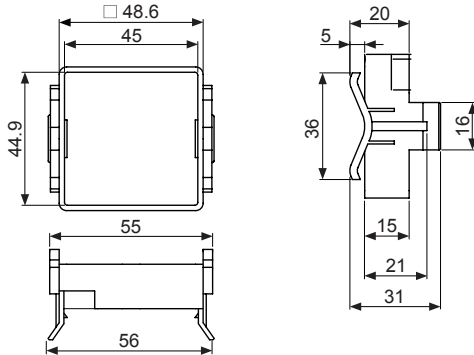
## ■ Dimensions



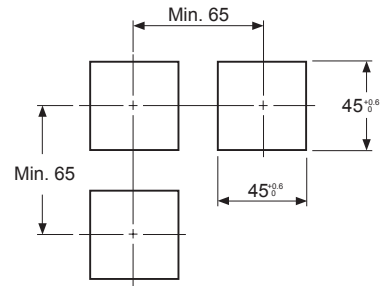
(unit: mm)

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

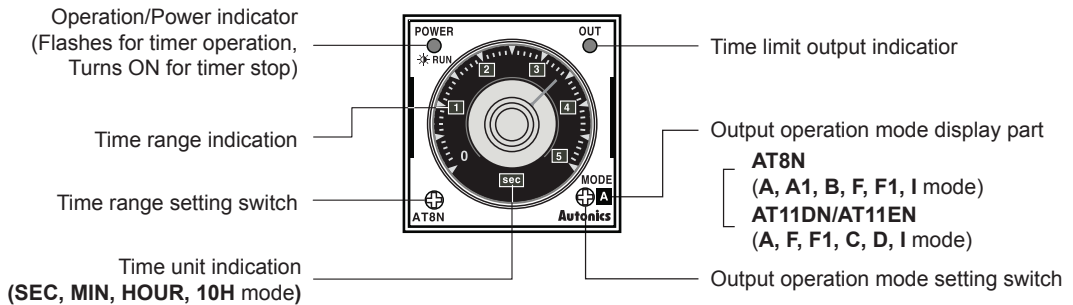
### ● Bracket



### ● Panel cut-out



## ■ Unit Description



## ■ Time Specifications

Time range	Time unit	Time setting range	Time range	Time unit	Time setting range
0.5	SEC	0.05 to 0.5sec	0.5	HOUR	0.05 to 0.5hour
1		0.1 to 1sec	1		0.1 to 1hour
5		0.5 to 5sec	5		0.5 to 5hour
10		1 to 10sec	10		1 to 10hour
0.5	MIN	0.05 to 0.5min	0.5	10H	0.5 to 5hour
1		0.1 to 1min	1		1 to 10hour
5		0.5 to 5min	5		5 to 50hour
10		1 to 10min	10		10 to 100hour

## ■ Output Operation Mode

### ● AT8N

Display	Output operation mode
A	Power ON Delay
A1	Power ON Delay1 (One-Shot output)
B	Power ON Delay2
F	Flicker (OFF Start)
F1	Flicker1 (ON Start)
I	Interval

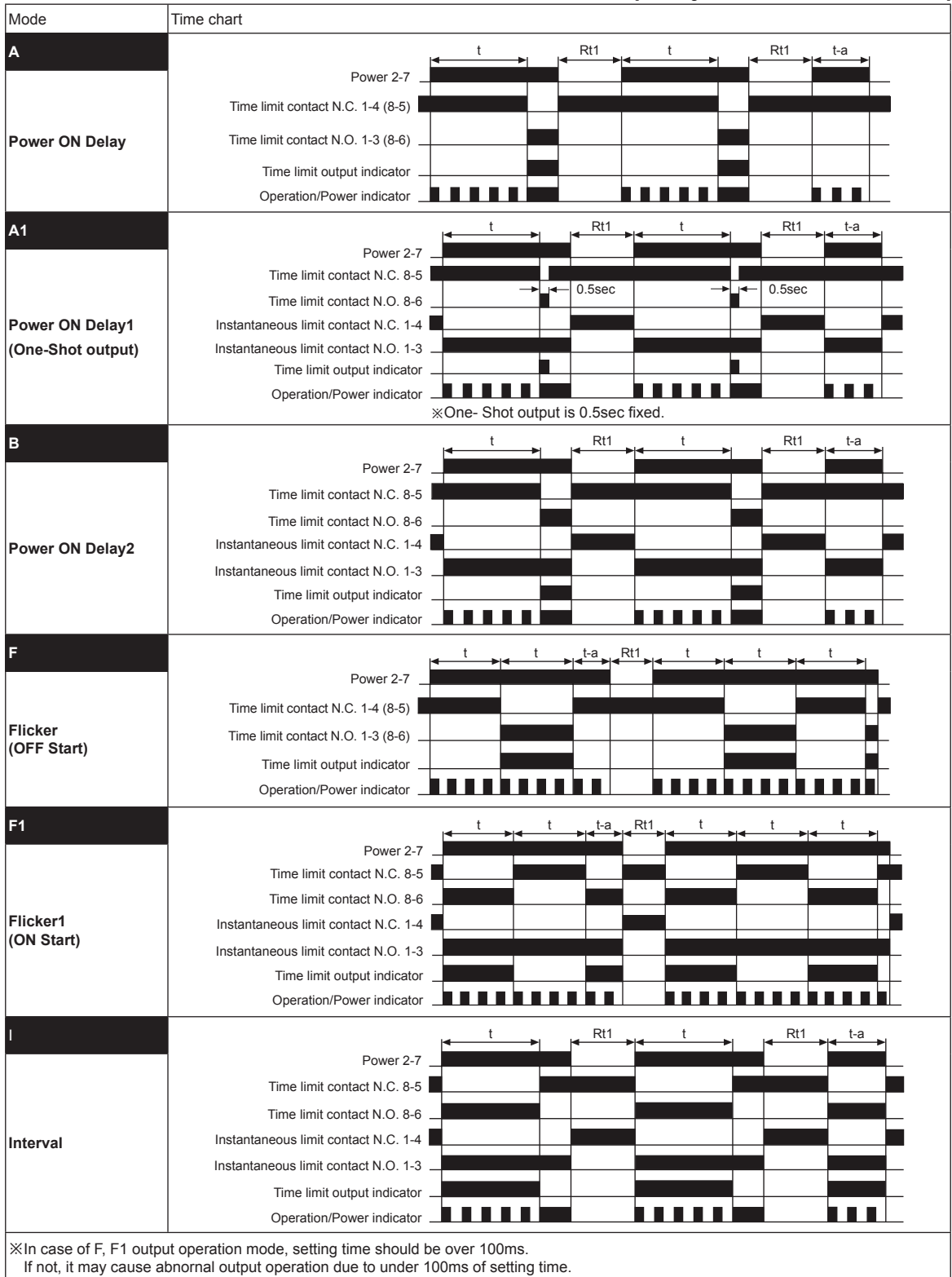
### ● AT11DN/AT11EN

Display	Output operation mode
A	Signal ON Delay
F	Flicker (OFF Start)
F1	Flicker1 (ON Start)
C	Signal OFF Delay
D	Signal ON/OFF Delay
I	Interval

# Multi Function Analog Timer

## ■ Output Operation Mode (AT8N)

[t: Setting time,  $t > t-a$ , Rt: Return time,  $Rt1 > Rt$ ]

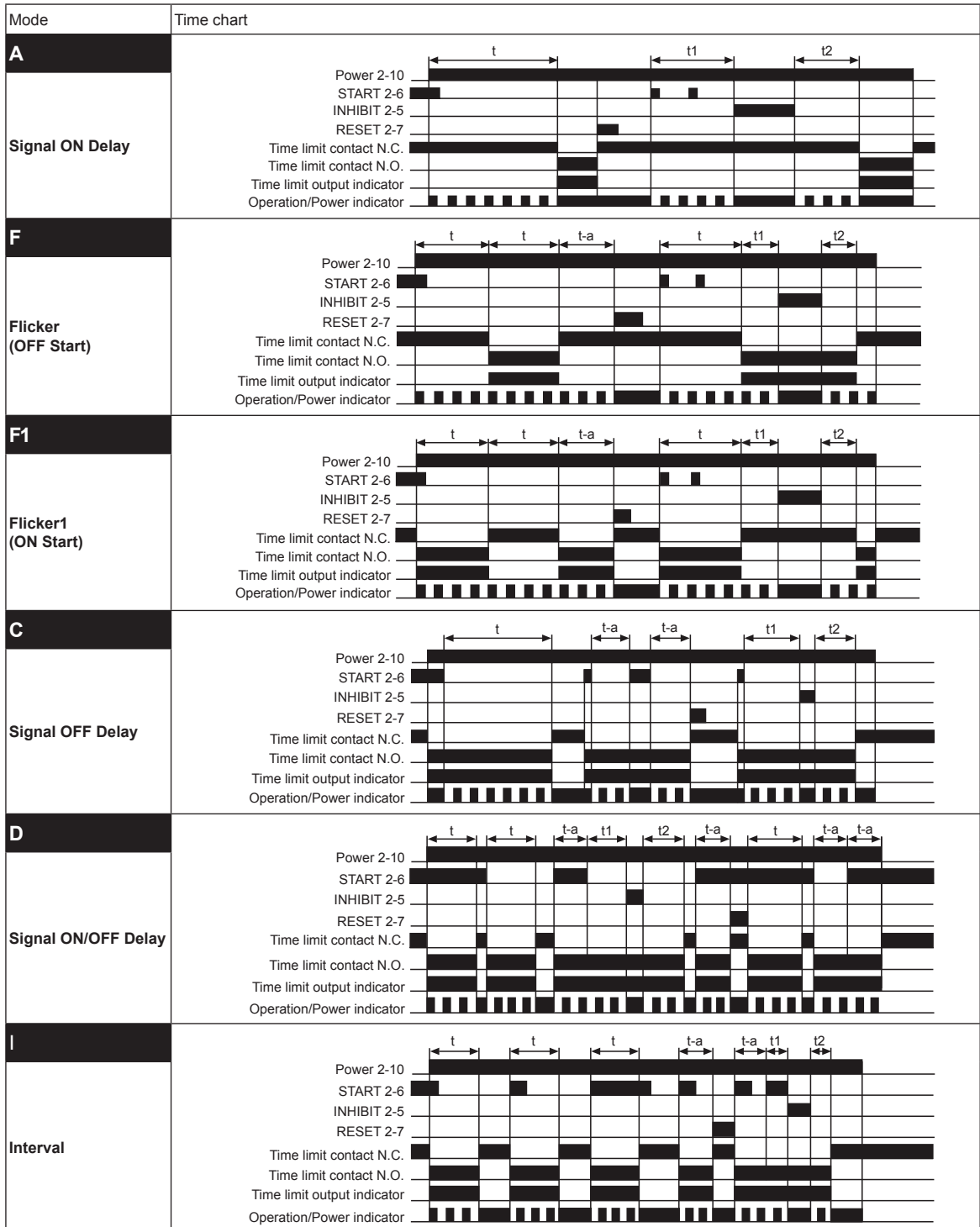


※In case of F, F1 output operation mode, setting time should be over 100ms.  
If not, it may cause abnormal output operation due to under 100ms of setting time.

- (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
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- (R) Graphic/ Logic Panels
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## Output Operation Mode (AT11DN/AT11EN)

[t: Setting time,  $t=t_1+t_2$ ,  $t>t-a$ ]



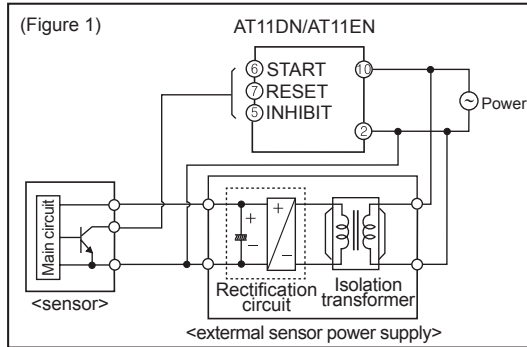
- ※If power is cut or the RESET terminal is short-circuited, the timer will be RESET.
- ※If the INHIBIT terminal is short-circuited during a time limit operation, the time will stop.
- ※In case of F, F1 output operation mode, setting time should be over 100ms.  
If not, it may cause abnormal output operation due to under 100ms of setting time.

# Multi Function Analog Timer

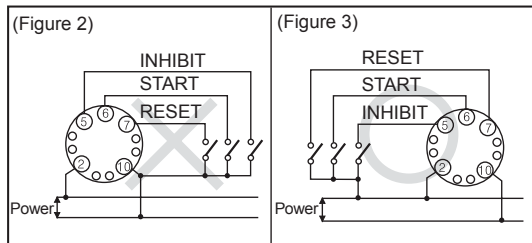
## ■ Proper Usage

### ○ Input connection (AT11DN/AT11EN)

- Power circuit of AT11DN/EN timer does not use trans. Use isolation transformer which secondary part is not grounded as (Figure 1) to cut off peripheral current flow for supplied power to external input devices.



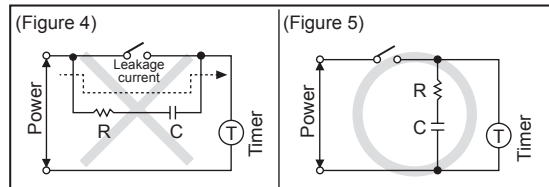
- As (Figure 2), if using terminal ⑩ as common terminal of input signal, it may cause damage to inner circuit of AT11DN/EN timer. Use terminal ② as common terminal referring to (Figure 3).



- In order to apply input signals (INHIBIT, START, RESET), short-circuit the terminal no. ②-⑤, ②-⑥ or ②-⑦. It may cause internal circuit damage by wrong connections.
- Do not wire INHIBIT, START, RESET signal input line with power line, high voltage line in parallel.

### ○ Common

- Please 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, please apply the rated power at the moment by switch, relay, etc. Otherwise it might cause malfunction.
- When supply the power to the timer, connection shown in (Figure 4) might cause malfunction due to leakage current through R and C. Please connect R and C as shown in (Figure 5) to prevent malfunction.



- It might cause malfunction if changing the setting time, time range or operation mode during unit operating unit. Please 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

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(S) Field Network Devices

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