Autonics AT11DN W 48 × H 48 mm Analog Timers Instructions

Contents

Autonics

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Autonics ATN Series Catalog

The Autonics ATN Series Catalog is a multi-function timer used for various applications. The product comes with different models that have unique features and specifications.

Features

- Multi-function timer with different timing ranges
- Various input types including signal ON start and power ON start
- Different output modes such as instantaneous and time-limited DPDT or SPDT relays
- Compact design with transparent guide cover

Specifications

The specifications of the Autonics ATN Series Catalog are subject to change without notice for product improvement. Please follow the Autonics website to select the specific model based on your requirements.

Model	Function	Return Time	Time Operation	Input	Output	Approval
AT8N-	Multi-Function Timer	100 ms	Power ON Start, Signal ON Start	INHIBIT, START, RESET	Time limit DPDT (2c), Instantaneous SPDT (1c) + Time limit SPDT (1c)	–
AT11DN-	Multi-Function Timer	100 ms	Power ON Start, Signal ON Start	INHIBIT, START, RESET	Time limit DPDT (2c)	–
AT11EN-	Multi-Function Timer	100 ms	Power ON Start, Signal ON Start	INHIBIT, START, RESET	Instantaneous SPDT (1c) + Time limit SPDT (1c)	–

Components

The Autonics ATN Series Catalog package includes the following components:

- Timer unit
- Bracket
- User manual/instruction guide

Usage Instructions

To use the Autonics ATN Series Catalog timer, follow these instructions:

1. Connect the power input according to your model's specifications.
2. Select the desired time range using the time range setting switch and the dial for time setting.
3. Select the desired output operation mode using the output operation mode setting switch.
4. Connect the input signals using INHIBIT, START, and RESET terminals.
5. Connect the load to the output relay contacts. Ensure that the load does not exceed the contact capacity.
6. Power on the timer and start the input signal to activate the output relay according to your selected output operation mode.

For detailed specifications and further guidance on usage, refer to the user manual/instruction guide that comes with the product.
For any further assistance or support, please contact Autonics customer support.

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.
The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Product Features

- Wide range of power supply
  : 100 – 240 VAC~ 50 / 60 Hz, 24 – 240 VDC~ / 24 VAC~ 50 / 60 Hz, 24 VDC /12 VDC
- Various output operation (6 operation modes)
- Multi time range (16 types of time range)
- Wide control time (0.05 sec to 100 hour)
- Easy setting of time, time range, output operation mode
- Easy to check output status by indicator

Ordering Information

This is only for reference, the actual product does not support all combinations.
For selecting the specified model, follow the Autonics website.

1. Plug type
   8: 8-pin plug
   11: 11-pin plug
2. Output
   No mark: Time limit DPDT (2c), Instantaneous SPDT (1c) + Time limit SPDT (1c)
   D: Time limit DPDT (2c)
   E: Instantaneous SPDT (1c) + Time limit SPDT (1c)
3. Power supply
   No mark: 100 – 240 VAC 50 / 60 Hz, 24 – 240 VDC
   1: 12 VDC
   2: 24 VAC 50 / 60 Hz, 24 VDC

Product Components

- Product (+ bracket)
- Instruction manual

Product Specifications

Model	**AT8N-□**	**AT11DN-□**	**AT11EN-□**
Function	Multi Function Timer		
Return time	≤ 100 ms		
Time operation	Power ON Start	Signal ON Start	
Input	–	INHIBIT, START, RESET	
Min. signal width	–	≈ 50 ms	

No-voltage input	–	Short-circuit impedance: ≤ 1 kΩ Short-circuit residual voltage: ≤ 0.5 VDC ⎓ Open-circuit impedance: ≥ 100 kΩ	
Control output	Relay		
Contact type	Time limit DPDT (2c), Time limit SPDT (1c) + Instantaneous SPDT (1c)	Time limit DPDT (2c)	Time limit SPDT (1c) + Instantaneous SPDT (1c)
Contact capacity	250 VAC~ 5 A, 30 VDC⎓ 5 A resistive load	250 VAC~ 5 A, 24 VDC⎓ 5 A resistive load	250 VAC~ 5 A, 30 VDC⎓ 5 A resistive load
Error	Repeat: ≤ ± 0.2% ± 10 ms SET: ≤ ± 5% ± 50 ms Voltage: ≤ ± 0.5% Temp.: ≤ ± 2%		
Approval			
Unit weight (packaging)	≈ 86.71 g (≈ 134.12 g)	≈ 85 g (≈ 132.2 g)	≈ 87.5 g (≈ 134.7 g)

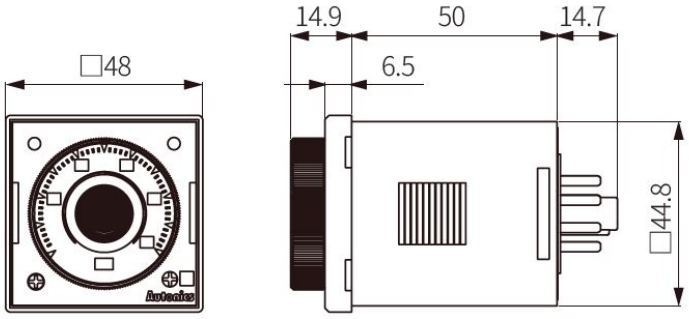
Power supply	**100 – 240 VAC~ ± 10% 50 / 60 Hz, 24 – 240 VDC⎓ ± 10%**	**12 VDC⎓ ± 10%**	**24 VAC~ ± 10% 50 / 60 Hz, 24 VDC⎓ ± 10%**

Power consumption	It depends on the model.		
AT8N-□	AC: ≤ 4.3 VA DC: ≤ 2 W	DC: ≤ 1.5 W	AC: ≤ 4.5 VA DC: ≤ 2 W
AT11DN-□	AC: ≤ 3.5 VA DC: ≤ 1.5 W	DC: ≤ 1 W	AC: ≤ 4 VA DC: ≤ 1.5 W
AT11EN-□	AC: ≤ 4.3 VA DC: ≤ 2 W	DC: ≤ 1.5 W	AC: ≤ 4.5 VA DC: ≤ 2 W
Insulation resistive	≥ 100 MΩ (500 VDC⎓ megger)		
Dielectric strength	2,000 VAC~ 50 / 60 Hz for 1 min		
Noise immunity	± 2 kV square-wave noise by noise simulator (pulse width 1)	± 500 V square-wave noise by noise simulator (pul se width 1)	
Vibration	0.75 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 1 hour		

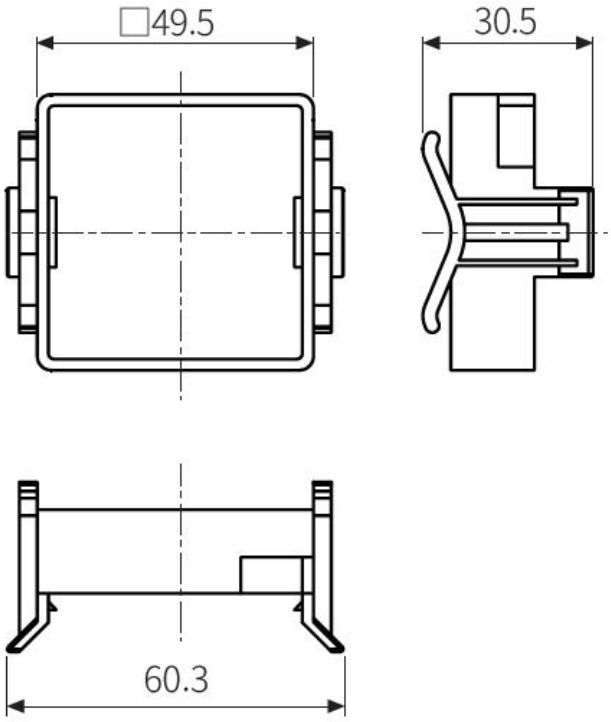
Vibration (malfunction)	0.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min
Shock	300 m/s2 (≈ 30 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	100 m/s2 (≈ 30 G) In each X, Y, Z direction for 3 times
Relay life cycle	Mechanical: ≥ 10,000,000 operations Electrical: ≥ 100,000 operations (250 VAC~ 5 A resistive load)
Ambient temperature	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)
Ambient humidity	35 to 85%RH, storage: 35 to 85%RH (no freezing or condensation)

Dimensions

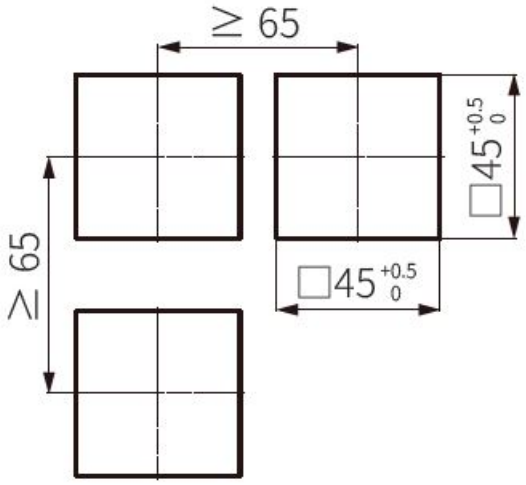
- **Unit:** mm, For the detailed drawings, follow the Autonics website.



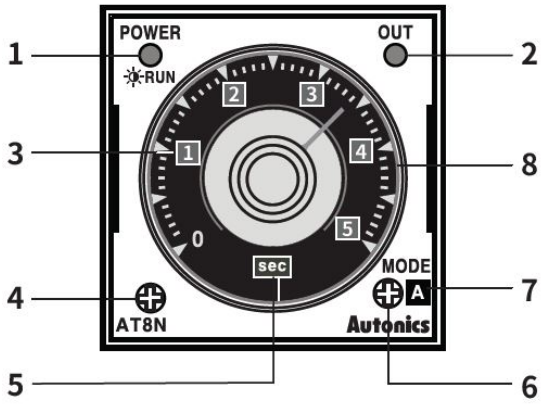
Bracket



Panel cut-out



Unit Descriptions



No.	Name
1	Power indicator
2	Time limit output indicator
3	Time range display part
4	Time range setting switch
5	Time unit display part • SEC, MIN, HOUR, 10H
6	Output operation mode setting switch
7	Output operation mode display part
8	Dial for the time setting

Sold Separately

- 8-pin socket: PG-08, PS-08(N)
- 11-pin socket: PG-11, PS-11(N)

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Documents / Resources

	Autonics AT11DN W 48 × H 48 mm Analog Timers [pdf] Instructions AT11DN W 48 H 48 mm Analog Timers, AT11DN, W 48 H 48 mm Analog Timers, 48 mm Analog Timers, Analog Timers, Timers

References

- autonics.com