

# W 48 × H 48 mm Star-Delta Analog Timers



## AT8SDN Series CATALOG

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.

### Features

- Wide range of power supply  
: 100 - 240 VAC ~ 50 / 60 Hz, 24 - 240 VDC = universal
- Wide range of setting time and switching time  
- T1 (setting time): Selectable 0.5 to 100 sec  
- T2 (switching time): Selectable 0.05, 0.1, 0.2, 0.3, 0.4, 0.5 sec
- Simple setting time, switching time operation
- Easy to check output status by LED display
- Application: Starting large capacity motors

### Product Components

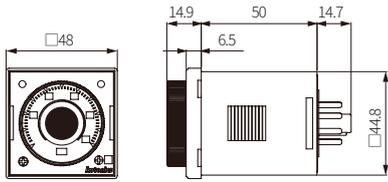
- Product (+ bracket)
- Instruction manual

### Specifications

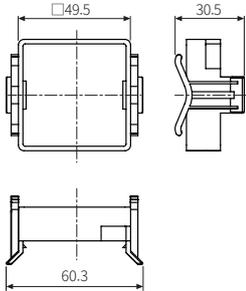
<b>Model</b>	<b>AT8SDN</b>
<b>Function</b>	Star-Delta Timer
<b>Return time</b>	≤ 100 ms
<b>Time operation</b>	Power ON Start
<b>Control output</b>	Relay
Contact type	Y Contact: Time limit SPST (1a), Δ Contact: Time limit SPST (1a)
Contact capacity	250 VAC ~ 5 A, 30 VDC = 5 A resistive load
<b>Error</b>	Repeat: ≤ ± 0.2% ± 10 ms Voltage: ≤ ± 0.5% Temp.: ≤ ± 2% Y setting time: ≤ ± 5% ± 50 ms Y - Δ switching time: ≤ ± 25%
<b>Approval</b>	CE c  ENEC EAC
<b>Weight</b>	≈ 90 g
<b>Power supply</b>	100 - 240 VAC ~ ± 10% 50 / 60 Hz, 24 - 240 VDC = ± 10%
<b>Power consumption</b>	AC: ≤ 3.2 VA, DC: ≤ 1.5 W
<b>Insulation resistive</b>	≥ 100 MΩ (500 VDC = megger)
<b>Dielectric strength</b>	2,000 VAC ~ at 50 / 60 Hz for 1 min
<b>Noise immunity</b>	± 2 kV square-wave noise by noise simulator (pulse width 1 μs)
<b>Vibration</b>	0.75 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 1 hour
<b>Vibration (malfunction)</b>	0.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min
<b>Shock</b>	300 m/s <sup>2</sup> (≈ 30 G) in each X, Y, Z direction for 3 times
<b>Shock (malfunction)</b>	100 m/s <sup>2</sup> (≈ 10 G) in each X, Y, Z direction for 3 times
<b>Relay life cycle</b>	Mechanical: ≥ 10,000,000 operations Electrical: ≥ 100,000 operations (250 VAC ~ 5 A resistive load)
<b>Ambient temperature</b>	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)
<b>Ambient humidity</b>	35 to 85%RH, storage: 35 to 85%RH (no freezing or condensation)

## Dimensions

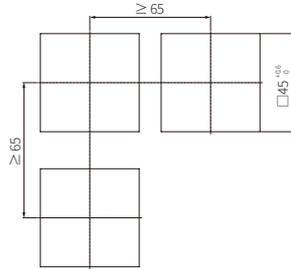
- Unit: mm, For the detailed drawings, follow the Autonics website.



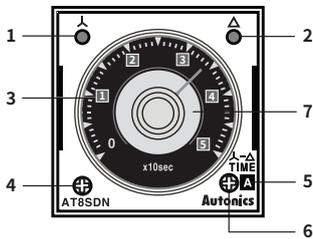
### Bracket



### Panel cut-out



## Unit Descriptions



No.	Name
1	Y operation indicator
2	Δ operation indicator
3	Time range display part
4	Time range setting switch
5	Y - Δ switching time display part
6	Y - Δ switching time setting switch
7	Dial for the time setting

## Sold Separately

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