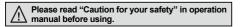
Star-Delta Timer with Free power, compact size W38×H42mm

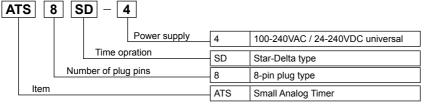
Features

- Wide power supply range
 : 100-240VAC 50/60Hz /24-240VDC (universal)
- Wide time setting range 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.
- 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
- Application: Starting large capacity motors





Ordering information



XSockets (PG-08, PS-08, PS-M8) are sold separately.

Specifications

- Opcomoutions							
Model		ATS8SD-4					
Function		Star-Delta Timer					
Control time setting range		0.5sec to 100sec (max. time)					
Power supply		100-240VAC 50/60Hz /24-240VDC universal					
Allowable voltage range		90 to 110% of rated voltage					
Power consumption		100-240VAC : 3VA, 24-240VDC : 1.5W					
Return time		Max. 100ms					
Time operation		Power ON Start type					
Control output	Contact type	λ contact: SPST(1a), Δ contact: SPST(1a)					
	Contact capacity	250VAC 3A resistive load					
Relay		Min. 10,000,000 operations					
life cycle	Electrical	Min. 100,000 operations (250VAC 3A resistive load)					
Repeat error		Max. ±0.2% ±10ms					
人 setting error		Max. ±5% ±50ms					
Voltage error		Max. ±0.5%					
Temperature error		Max. ±2%					
		Max. ±25%					
Insulation resistance		100№ (at 500VDC megger)					
Dielectric strength		2000VAC 50/60Hz for 1 min.					
Noise resistance		±2kV the square wave noise (pulse width 1μs) by noise simulator					
\/ibrotion	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					
OHOUR	Malfunction	100m/s² (approx. 10G) in each of X, Y, Z directions 3 times					
Environ-	Ambient temperature	-10 to 55°C, storage: -25 to 65°C					
	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH					
Approval		C € c PU us					
Accessory		Bracket					
Unit weight		Approx. 72g					

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area

(D) Proximity

(E) Pressure sensor

> (F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

> anel neter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

> ensor ontroller

(P) Switching mode power supply

> 2) tepper otor& river&Controller

(R) Graphic/ Logic panel

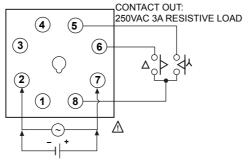
> ield etwork levice

T) Software

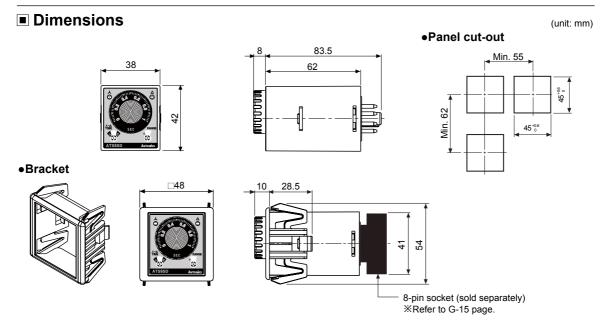
(U) Other

Autonics K-49

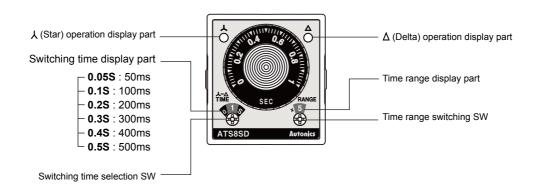
Connections



SOURCE: 100-240VAC 50/60Hz, 24-240VDC universal



■ Parts description



K-50 Autonics

Small Star-Delta Timer

■ Time range

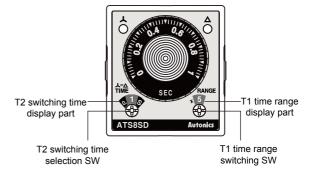
1. T1(setting time) time

Time range	Time unit	Setting time range	
5		0.5 to 5sec	
10	sec	1 to 10sec	
50		5 to 50sec	
100		10 to 100sec	

2. T2(, -∆ switching time) time

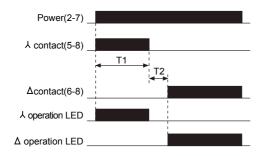
,	٠.	
		sec)

Switching time display part	0.058	0.18	0.28	0.38	0.48	0.58
T2 (人 -Δ switching time)	0.05	0.1	0.2	0.3	0.4	0.5



Operation

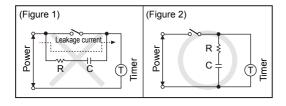
When power is applied, λ contact will be ON. When reaching to T1 setting time, λ contact will be OFF and Δ contact will be ON after switching time of T2 is passed. If the power is OFF, λ contact will be OFF.



 $XT2: A - \Delta$ switching time (A contact and Δ contact are OFF simultaneously at power ON)

■ Proper usage

- Please supply power quickly at once with using switch or relay contact. Otherwise it may cause time error or power reset failure.
- When supplying power for a long time, timer life cycle may be shorten due to overheat of inner components of timer.
- When supplied power of timer is DC, be sure that the polarity.
- When supplying the power to the timer, connection shown in (Fig. 1) might cause malfunction due to leakage current through R and C. Please connect R and C as shown in (Fig. 2) to prevent malfunction.



- Change the setting time (T1), time range or switching time(T2). Otherwise, it might cause malfunction if changing the setting time (T1), time range or switching time(T2) during operation.
- 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.

(A) Photo electric sensor

(B) Fiber optic

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

> (F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

Panel meter

(M) Tacho/ Speed/ Pulse meter

> (N) Display unit

O) Sensor controller

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controller

(R) Graphic/ Logic panel

(S) Field network device

device

(U) Other

Autonics K-51