



# Autonics LE3SA LCD Digital Thumb wheel Switch Timers Instruction Manual

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## Autonics

LCD Digital Thumb wheel Switch Timers  
LE3S Series  
INSTRUCTION MANUAL  
TCD220044AA

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### LE3SA LCD Digital Thumb wheel Switch Timers

Thank you for choosing our Autonics product.

Read and understand the instruction manual and manual thoroughly before using the product.

For your safety, read and follow the below safety considerations before using.

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

Keep this instruction manual in a place where you can find easily.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Follow Autonics website for the latest information.

## Safety Considerations

- Observe all 'Safety Considerations' for safe and proper operation to avoid hazards.



- symbol indicates caution due to special circumstances in which hazards may occur.



**Warning** Failure to follow instructions may result in serious injury or death.

1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.)

Failure to follow this instruction may result in personal injury, economic loss or fire.

2. Do not use the unit in the place where flammable/explosive/corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact or salinity may be present.

Failure to follow this instruction may result in explosion or fire.

3. Install on a device panel to use.

Failure to follow this instruction may result in fire or electric shock.

4. Do not connect, repair, or inspect the unit while connected to a power source.

Failure to follow this instruction may result in fire or electric shock.

5. Check 'Connections' before wiring.

Failure to follow this instruction may result in fire.

6. Do not disassemble or modify the unit.

Failure to follow this instruction may result in fire or electric shock.



**Caution** Failure to follow instructions may result in injury or product damage.

1. Use the unit within the rated specifications.

Failure to follow this instruction may result in fire or product damage.

2. Use a dry cloth to clean the unit, and do not use water or organic solvent.

Failure to follow this instruction may result in fire or electric shock.

3. Keep the product away from metal chip, dust, and wire residue which flow into the unit.

Failure to follow this instruction may result in fire or product damage.

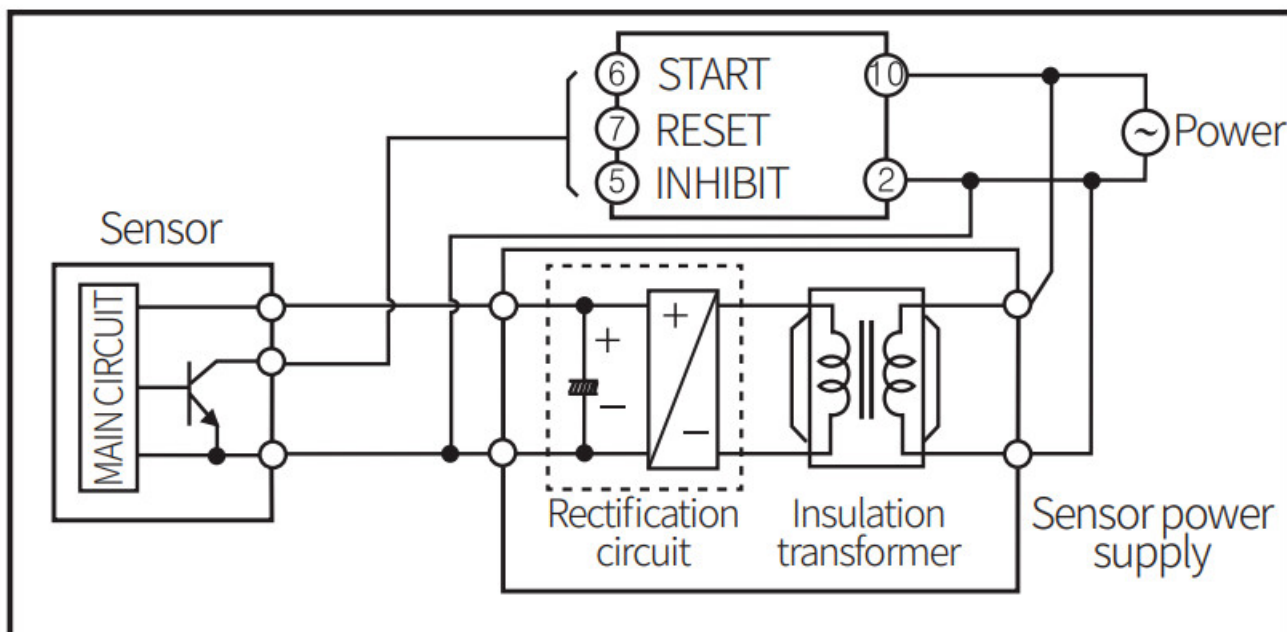
## Cautions during Use

- Follow instructions in 'Cautions during Use'.

Otherwise, it may cause unexpected accidents.

- When supplying or turning off the power, use a switch or etc. to avoid chattering.

- Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power..
- In order to block peripheral current, use isolation transformer which of secondary part is not grounded to supply power to the external input device.



- After turning off the power, change the time range, etc.
- Do not connect two or more timers with only one input contact or transistor simultaneously.
- Keep away from high voltage lines or power lines to prevent inductive noise. In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line.  
Do not use near the equipment which generates strong magnetic force or high frequency noise.
- This unit may be used in the following environments.
  - Indoors (in the environment condition rated in 'Specifications')
  - Altitude max. 2,000 m
  - Pollution degree 2
  - Installation category II

## Ordering Information

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

### LE3S ①

#### ① Output

No mark: Time limit SPDT (1c)

A: Time limit DPDT (2c)

B: Time limit SPDT (1c), Instantaneous SPDT (1c)

## Product Components

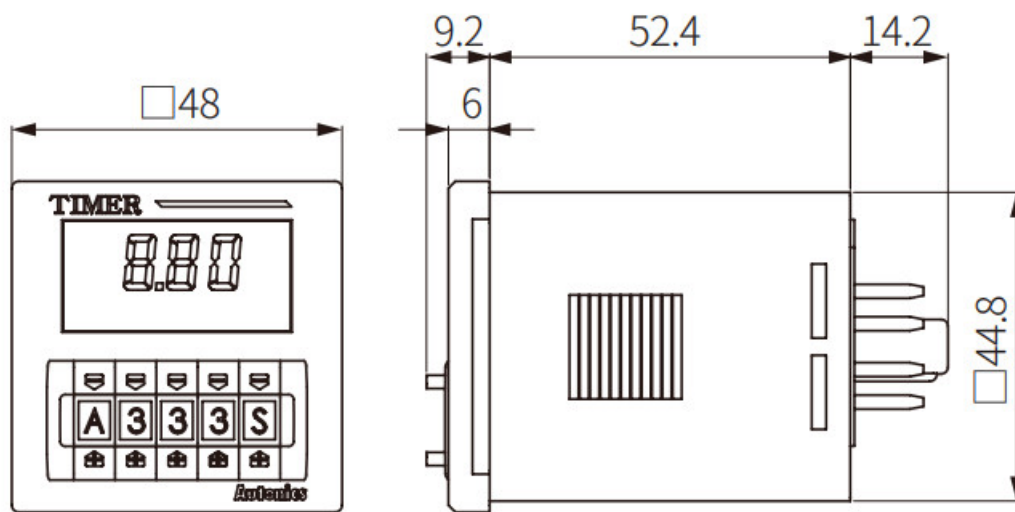
- Product (+ bracket)
- Instruction manual

## Sold Separately

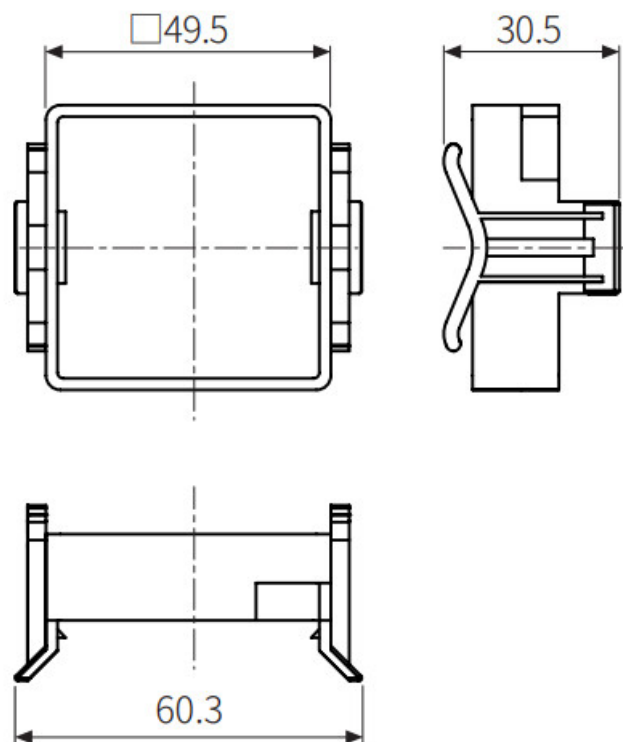
- 8-pin socket: PG-08, PS-08(N)

## Dimensions

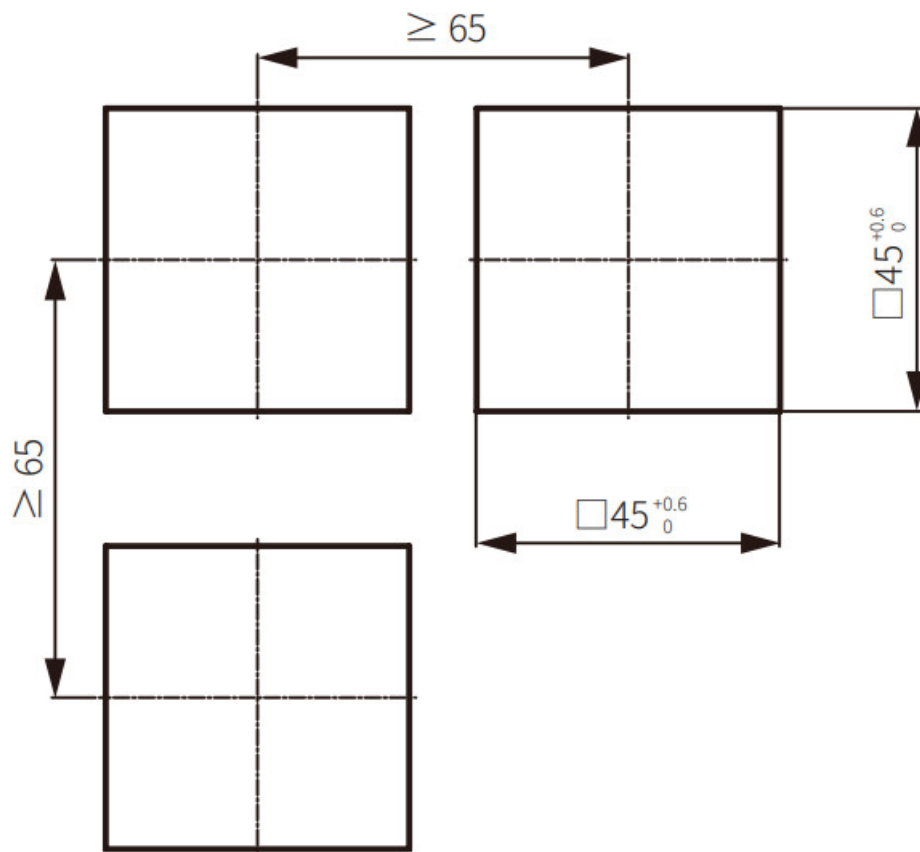
- Unit: mm, For the detailed drawings, follow the Autonics website.



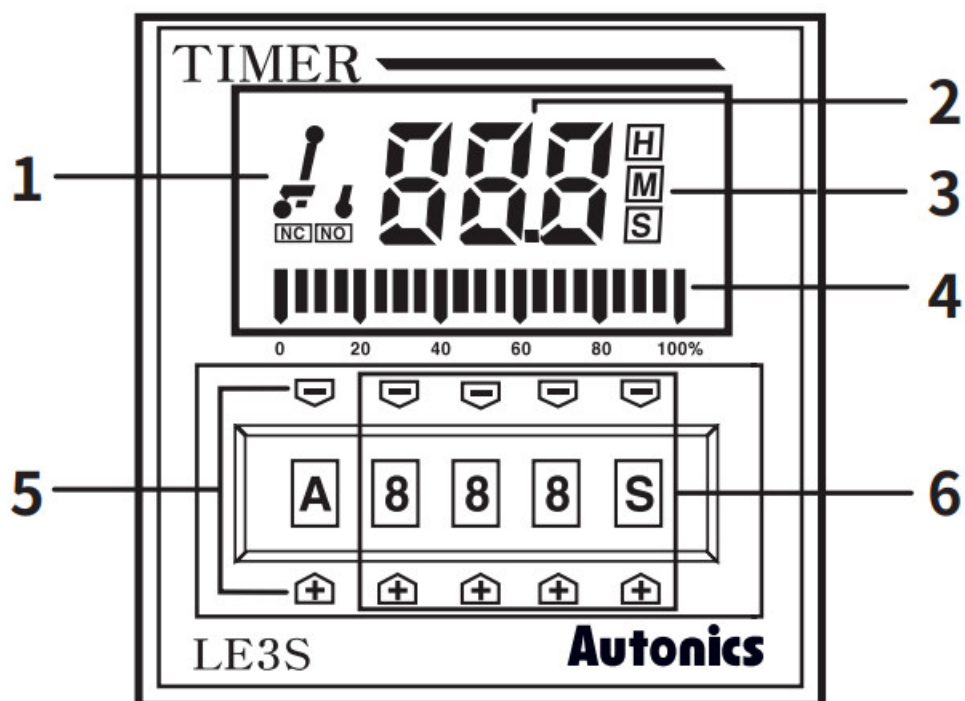
## Bracket





## Panel cut-out



## Unit Descriptions



No.	Name
1	Output status
	<div> <div>ON:</div>  </div> <div> <div>OFF:</div>  </div>
2	Time progressing display part
3	Time unit
4	Time progress bar (%)
5	Output operation mode setting switch
6	Time range setting switch

## Output Operation Mode

For the detailed timing chart for operation output mode, refer to the manual.

A	ON Delay A • LE3SA, LE3SB: A mode fixed
B	Interval Delay A
C	ON Delay B
D	Flicker A
E	Flicker B
F	One-shot Out Flicker
H	OFF Delay
K	ON / OFF Delay
L	Interval Delay B
N	Integration Time

## Time Range

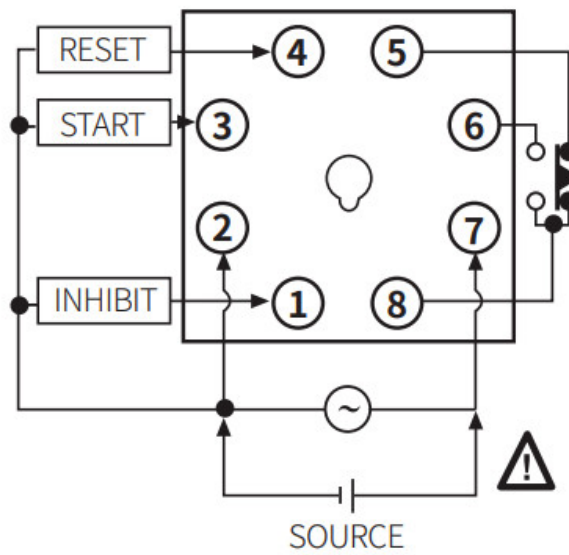
Setting	Unit	Range
0.01s	SEC	0.01 s to 9.99 s
0.1s		0.1 s to 99.9 s
s		1 s to 999s
0.1m	MINI	0.1 m to 99.9 m
m		1 m to 999 m
0.1h	HOUR	0.1 h to 99.9 h
h		1 h to 999 h
10h		10 h to 9990 h
S	MIN/SEC	0m 01 s to 9 m 59 s
M	HOUR/MIN	0 h 01 m to 9 h 59 m

## Connections

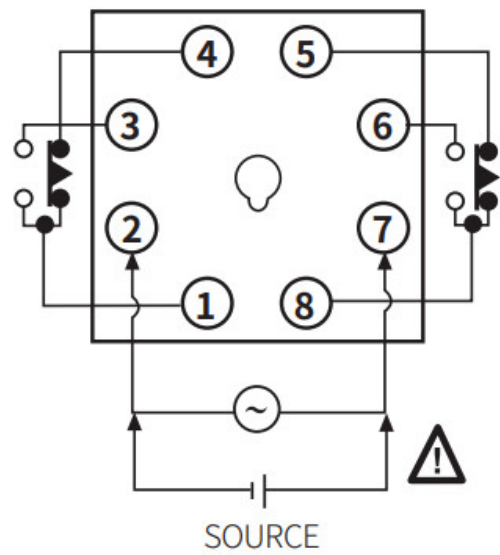


- Refer to the 'specifications' for checking the power supply and control output.
- The LE3S model: Be sure to use terminal No. 2 as the common terminal to connect terminals No. 1, 3, and 4. Failure to follow this instruction may result in product malfunction.

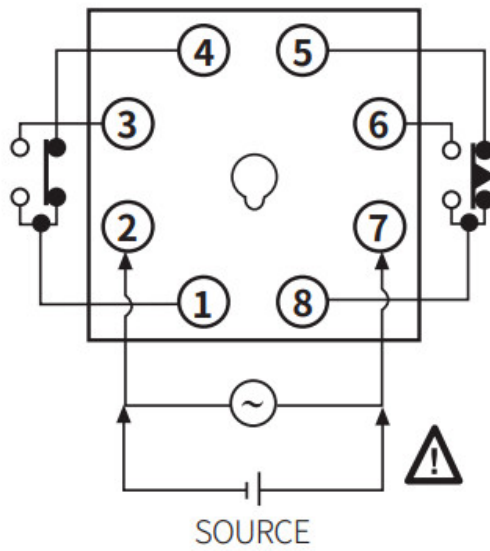
## ■ LE3S



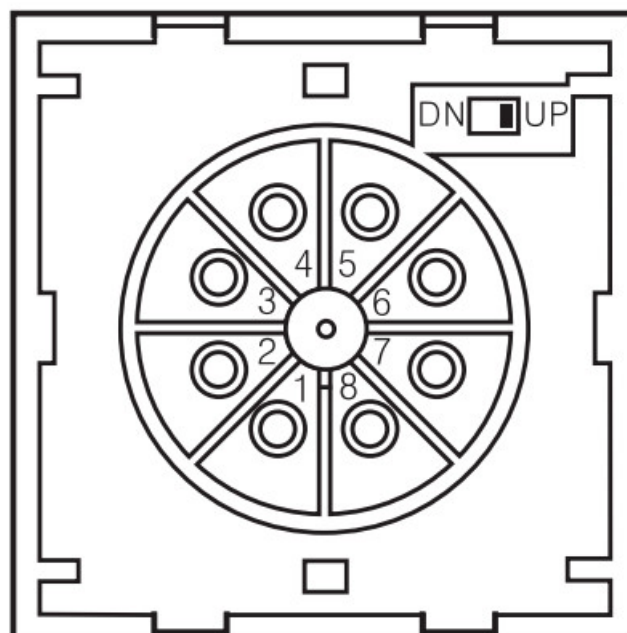
## ■ LE3SA



## ■ LE3SB



UP/DOWN Mode









**Caution:** Be sure to turn OFF the power.




- Set the UP mode or DOWN mode via the switch.

- UP mode: DN  UP

- DOWN mode: DN  UP

Model	Defaults
LE3S LE3SA LE3SB	UP mode
	UP mode (DOWN mode: optional)


## Specifications

Model		LE35	LE35A I	LESS
Function		MULTI time, MULTI operation	MULTI time, Power ON Delay	
Display method		LCD (Character size: W 4 X H 8 mm)		
Return time		200 ms	100 ms	
Time operation		Signal ON Start	Power ON Start	
Input signal		START, INHIBIT, RESET	—	
Min. signal width		20 ms	—	
No-voltage input		Short-circuit impedance : 1kΩ Short-circuit residual voltage : 0.5VDC Open-circuit impedance : 180 kΩ	—	
Control output		Relay		
Contact type		Time limit SPDT (1c)	Time limit DPDT (2c) ) SPDT (1c) +	Time limit Instantaneous SPDT (1c)
Contact capacity		250 VAC— 5 A, 30VDC — 5A resistive load	250VAC— 3A,30VDC — 3A resistive load	
Error	Repeat	Power ON Start : ± 0.01% ± 0.05 sec — Signal ON Start . ± 0.005% ±0.03 sec	± 0.01% ± 0.05 sec	
	SET			
	Voltage			
	Temp.			
Approval		  		
Weight		100G	105g	

Model	LE3S	I LE3SA	I LE3SB
Power supply	24 -240VAC— ± 10%50/60 Hz, 24 – 240VDC ± 1096		
Power consumption	AC: 2.5 VA, DC: 1 W	I AC: 3.3 VA, DC: 1.5 W	
Insulation resistive	1W MO (500 VDC megger)		
Dielectric strength	2000 VAC — 50 / 60 Hz for 1 min		
Noise immunity	± 2 kV squa re-wave noise by noise sim ulator (pulse width 1 ps)		
Vibration	0.75 mm double amplitude at frequency of 10 to 55 Hz (for 1 mM) in each X,Y,Z direction for 1 hour		
Vibration (malfunction)	05 mm double amplitude at freq uency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min		
Shock	300 m/s' (...–: 30 G) in each X,Y, Z direction for 3 times		
Shock (malfunction)	1W m/s' (...–= 10 G) In each X, Y, Z direction for 3 times		
Relay life cycle	Mechanical: 10,000,000 operations		
	Electrical: 100,000 operations (250 VAC— 5A resistive load)	Electrical. 100,000 operations (250VAC— 3A resistive load)	
Ambient temperature	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)		
Ambient humidity	35 to 8.50/0RH, storage: 35 to 850/012H (no freezing or condensation)		

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## Documents / Resources

	<a href="#">Autonics LE3SA LCD Digital Thumb wheel Switch Timers</a> [pdf] Instruction Manual LE3SA LCD Digital Thumb wheel Switch Timers, LE3SA, LCD Digital Thumb wheel Switch Timers, wheel Switch Timers, Switch Timers
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## References

-  [www.autonics.com](http://www.autonics.com)