Autonics

TIMER LE3S SERIES

М



Thank you very much for selecting Autonics products. For your safety, please read the following before using.

Caution for your safety

*Please keep these instructions and review them before using this unit.

*Please observe the cautions that follow;

⚠ Warning Serious injury may result if instructions are not followed. Caution Product may be not followed. Product may be damaged, or injury may result if instructions are

*The following is an explanation of the symbols used in the operation manual. ▲ caution: Injury or danger may occur under special conditions.

M Warning

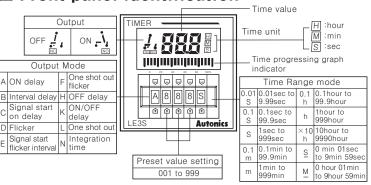
- 1. In case of using this unit with machineries (Nuclear power control, medical equipment, vehicle, train, airplane, combustion apparatus, entertainment or safety device etc), it requires installing fail-safe device, or contact us for information required.
- may result in serious damage, fire or human injury
- 2. This must be mounted on panel. t may give an electric shock
- 3. Do not repair or checkup when power on.
- It may give an electric shock.
- 4. Do not disassemble and modify this unit, when it requires. If needs, please contact us.
- It may give an electric shock and cause a fire.

- 1. This unit shall not be used outdoors.
- It might shorten the life cycle of the product or give an electric shock
- 2. Please observe specification rating.
- might shorten the life cycle of the product and cause a fire 3. Do not use the load beyond rated switching capacity of Relay contact.
- t may cause insulation failure, contact melt, contact failure, relay broken, fire etc.
- 4. In cleaning the unit, do not use water or an organic solvents.
- It might cause an electric shock or fire that will result in damage to the product. 5. Do not use this unit at place where there are flammable or explosive gas, humidity, direct ray of the sun, radiant heat, vibration, impact etc.
- 5. Do not inflow dust or wire dregs into inside of this unit.

Ordering information

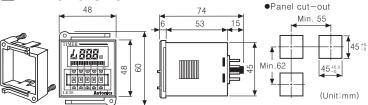


Front panel identification



*The above specification are changeable without notice anytime.

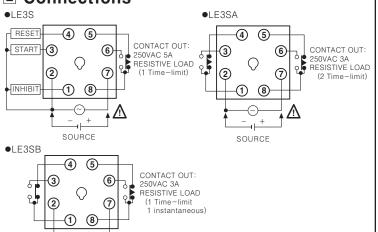
Dimensions



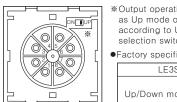
Specifications

Model		LE3S	LE3SA	LE3SB	
Function		Multi operating, Multi time	MULTI time, Power ON Delay		
Power supply		24-240VAC 50/60Hz, 24-240VDC			
Display method		LCD Display			
Allowable voltage range		90 to 110% of rated voltage			
Power consumption		Max. 2.5VA (240VAC 50/60Hz) Max. 1W(240VDC)	Max. 3.3VA(240VAC 50/60Hz) Max. 1.5W(240VAC)		
Return time		Max. 0.2sec	Max. 0.1sec		
IVIIII.	START input	-			
	INHIBIT input				
signal	RESET input				
	START input	Impedance(Max. 1kΩ), Residual voltage:			
	RESET input	Max. 0.5VDC Open-circuit : Impedance(Min. 100kΩ)			
Control output	Type Capacity	Time-limit : SPDT(1c)	Time-limit : DPDT(2c)	Time-limit: SPDT(1c), instantaneous: SPDT(1c)	
	റ്റ് Capacity		250VAC 3A	resistive load	
Output mode Ambient temperature		A, B, C, D, E, F, H, K, L, N		A	
		-10 to 55℃(at non-freezing status)			
Storage temperature		-25 to 65℃(at non-freezing status)			
Ambient humidity		35 to 85%RH			
Deviation		Power Start:	t. $\pm 0.01\% \pm 0.05 sec$ Max. : $\pm 0.01\% \pm 0.05 sec$ and Start:		
Setting error		Max. ±0.01% ±0.05sec			
Voltage error		Signal Start:			
Tempe	rature error	Max. ±0.005% ±0.03sec			
Insulation resistance		Min. 100MΩ (at 500VDC)			
Dielect	tric strength	2000VAC 50/60Hz for 1 minute			
Noise strength		±2kV the square wave noise(pulse width:1 μs) by the noise simulator			
Vibra	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 1hou			
-tion	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 10 minutes			
Shock	Mechanical	300m/s² (Approx. 30G) in X, Y, Z directions for 3 times			
	Malfunction	100m/s ² (Approx. 10G) in X, Y, Z directions for 3 times			
Relay life cycle	Mechanical	Min. 10.000.000 times			
	Electrical	Min. 100,000 times (250VAC 5A resistive load)	Min. 100.000 times(250VAC 3A resistive load)		
Weight		Approx. 100g	Approx. 105g		

Connections



SOURCE Up/Down mode



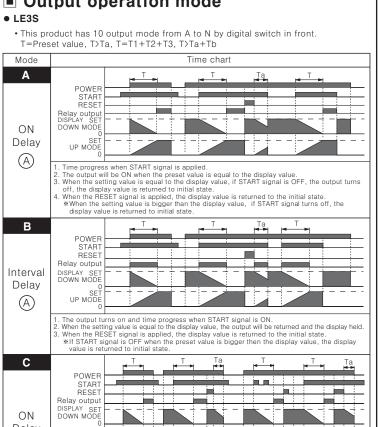
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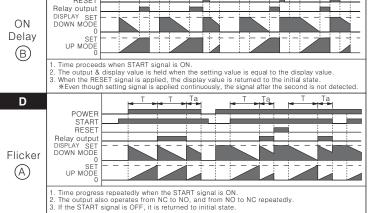
Up Down DN IUP DN IUP ♠ Power must be cut off.

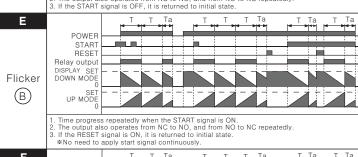
•Factory specification

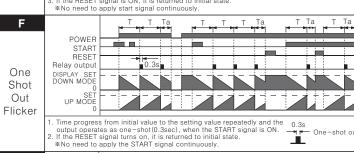
LE3S	LE3SA, LE3SB
p/Down mode : Up	Output mode: Fixed A mode Up/Down mode: Up Down Mode is optional

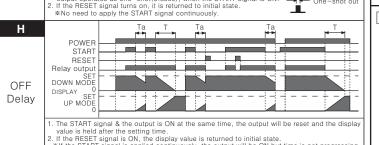
Output operation mode







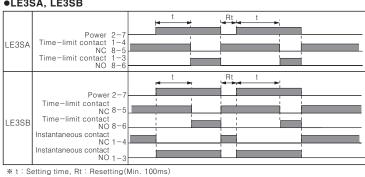




START RESET ON/OFF Delay The START usly, the output turns on but time is returned to th START Interval Delay (B) each at the setting value the output will be reset, and the display value is he Integration Time **Initial state: The output is OFF, the display value is "0". (At Up mode)
**When use D, E, F output mode: If set the fine short, it may not work due to response time of relay

contact. Please set the min, setting time over 100ms.

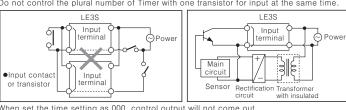
•LE3SA, LE3SB



Caution for using

- AC Power: It is able to connect power to the terminals (2 to 7) without distinguish the polarity DC Power:Be sure the polarity of $@-\langle-\rangle$, $@-\langle+\rangle$
- When apply the power voltage, please apply rating power at the moment by switch, relay etc. in order to reduce the time error
- Please use the transformer which has been insulated between primary and secondary and not grounded in secondary.

 Do not control the plural number of Timer with one transistor for input at the same time.



- When set the time setting as 000, control output will not come out.
- Do not connect input signal to terminal 2, it may cause inner circuit broken Do not change the time unit, time setting value, output operation mode(LE3S) while it is
- running. Therefore continue to set after cutting off power.

 3. Do not use this unit at below places.
- (1) It shall be used indoor ②Altitude Max. 2000m
- 3 Pollution Degree 2
- ④Installation Category II

*It may cause malfunction if above instructions are not followed.

Main products

- COUNTER
- TEMPERATURE CONTROLLER
- PANEL METER
 TACHO/LINE SPEED/PULSE METER

- DISPLAY UNIT
 PROXIMITY SENSOR
 PHOTOELECTRIC SENSOR
- BER OPTIC SENSOR RESSURE SENSOR
- OTARY ENCODER
- SENSOR CONTROLLER POWER CONTROLLER
- STEPPING MOTOR & DRIVER

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■HEADQUARTERS

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& CONTROLLER

LASER MARKING SYSTEM(CO2, Nd:YAG)

EP-KE-02-013H