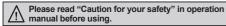
DIN W48×H48mm Digital Backlight LCD Timer

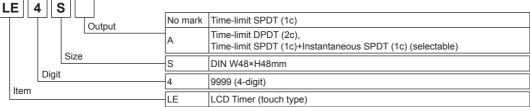
Features

- Mounting space saving with compact design
 - : downsized by approx. 22% in depth compared to existing models (length of panel on the back side is 56mm)
- Available to set each value and time range separately when choosing Flicker (FK, FK I) or ON-OFF Delay (ON OFF D, ON OFF D I) output mode
- Adds Flicker 1 mode (LE4SA)
- Settable One-shot output time (0.01 to 99.99sec) (existing model: fixed 0.5 sec)
- Configurable time range (added 9.999sec)
 - : Settable by 0.001sec unit
- Selectable Min. input time: 1ms or 20ms (LE4S)
- Improved return time: 100ms
- Backlight ON/OFF function
- Wide time range (0.01sec to 9999hour)
- · Lock setting function for saving setting data
- Soft touch setting
- High visibility display with backlight





Ordering Information



**Sockets (PG-08, PS-08(N)) are sold separately.

Specifications

Model			LE4S	LE4SA		
Function			Multi time and Multi operation			
Display method		d	LCD display (backlight)			
			24-240VAC 50/60Hz, 24-240VDC universal			
		age range	90 to 110% of rated voltage			
Power co	nsun	nption	Max. 4.5VA (24-240VAC 50/60Hz), Max. 2W (24-240VDC)	Max. 4VA (24-240VAC 50/60Hz), Max. 1.6W (24-240VDC)		
Return tir	me		Max. 100ms			
Min.	STAI	RT				
input	INHI	BIT	1ms, 20ms (selectable)	_		
signal width	RES	ET				
	STAF	RT	No-voltage input			
Input	INHIBIT		Impedance at short-circuit: Max. 1kΩ,	_		
	RES	ET	Residual voltage: Max. 0.5V, Impedance at open-circuit: Min. 100kΩ			
Timing operation		on	Signal ON Start	Power ON Start		
Control	Contact type		Time limit SPDT (1c)	Selectable Time limit DPDT (2c), Time limit SPDT (1c)+ Instantaneous SPDT (1c) (depends on operation mode)		
output	Contact capacity		250VAC 5A resistive load	250VAC 3A resistive load		
Relay	/ Mechanical		Min. 10,000,000 operations			
life cycle Electrical		trical	Min. 100,000 operations (at rated contact capacity)			
Output mode			10 operation modes	8 operation modes		
Environm	Ambient temp.		-10 to 55°C, storage: -25 to 65°C			
Eliviloriii	ieiil	Ambient humi.	35 to 85%RH			
Accessory			Bracket			

XEnvironment resistance is rated at no freezing or condensation.



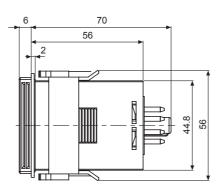
K-20 Autonics

Specifications

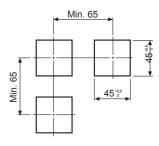
Model		LE4S	LE4SA	
Repeat error				
SET error		Max. ±0.01% ±0.05sec (for Power ON Start)	Max. ±0.01% ±0.05sec	
Voltage erro	or	Max. ±0.005% ±0.03sec (for Signal ON Start)		
Temperatur	e error			
Insulation r	esistance	Over 100M Ω (at 500VDC megger)		
Dielectric strength		2,000VAC 50/60Hz for 1 minute		
Noise immunity		±2kV the square wave noise (pulse width: 1µs) by the noise simulator		
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1hour		
VIDIALIOII	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min		
Shock	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction for 3 times		
SHOCK	Malfunction	100m/s² (approx. 10G) in each X, Y, Z direction for 3 times		
Approval		(€ c PL us		
Unit weight		Approx. 98g		

Dimensions



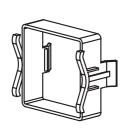


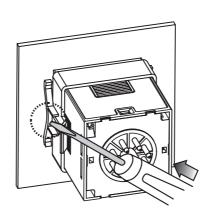
Panel cut-out



XRefer to page G-19 for 8-pin socket (sold separately).

• Bracket and mounting





※Insert product into a panel, fasten bracket by pushing with tools as shown above. (A) Photoelectric Sensors

(B) Fiber Optic

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

> (L) Panel Motore

(M) Tacho / Speed / Pulse Meters

(N) Display Units

> O) ensor ontrollers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

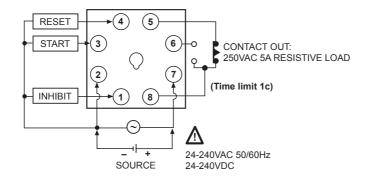
(R) Graphic/ Logic Panels

(S) Field Network Devices

> T) Software

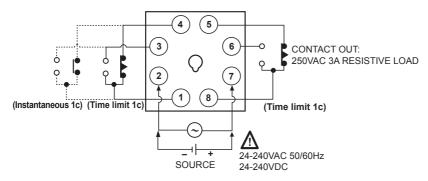
Connections

O LE4S



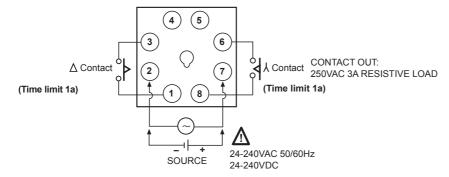
O LE4SA

• [ON.D] [ON.D.II] [FK] [FKI] [INT] [T] [T.I] mode



 \times Time limit 1c + Instantaneous 1c or Time limit 2c (selectable) ([T] [T.I]: Time limit 2c only.)

• [λ-Δ] mode

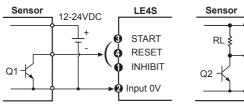


K-22 Autonics

Input Connections

LE4S is No-voltage input (short-circuit and open) type.

O Solid-state input

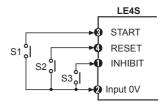


- Q1 is ON: Operating
- Sensor: NPN open collector output
- Sensor 12-24VDC LE4S

 RL + T- RESET INHIBIT

 Q2 Input 0V
 - Q2 is ON: Operating
 - Sensor: NPN universal output

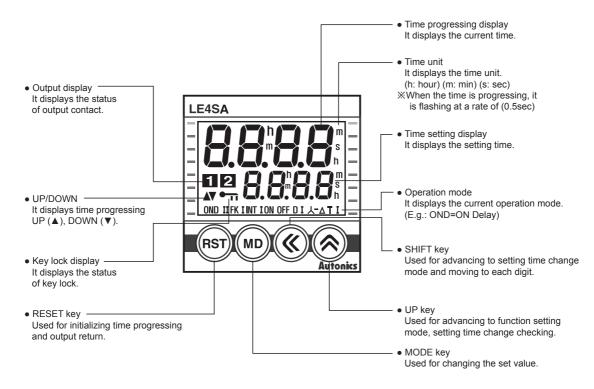
Contact input



- S1, S2, S3 are ON: Operating
- Please use reliable contact enough to flow 5VDC 1mA.

XBe sure that it is not insulated between power and input terminal block.

Unit Description



(A) Photoelectric Sensors

(B) Fiber Optic

> (C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

.) anel eters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

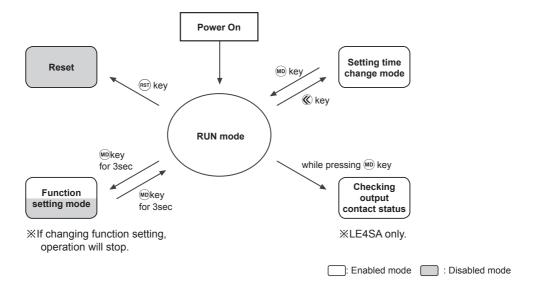
(R) Graphic/ Logic Panels

(S) Field Network Devices

> T) Software

■ Function And Time Setting

Configuration



Reset

Reset using (RST) key in Run mode

• Run mode

The operation status (when power is on for the first time: factory default setting) is displayed. It could enter into function setting mode, setting value change mode and output contact status mode.

• Function setting mode

If pressing (e) key over 3 sec in the Run mode, it will enter into function setting mode and if pressing (e) key over 3 sec in function setting mode, it will return to Run mode.

XEven if it enters into function setting mode in Run mode, time progressing and output control will continue.

XIf operation settings are changed in function setting mode, all outputs will be off and reset on returning to run mode.

• Output contact status mode (LE4SA only)

Output contact status are displayed while pressing (m) key in Run mode.

If pressing № key over 3 sec, it will enter into function setting mode.

Setting time change mode

Press © key to enter into setting time change mode and press we key to return to Run mode.

Even if signal is input when changing setting time, time progressing and output control will be continue.

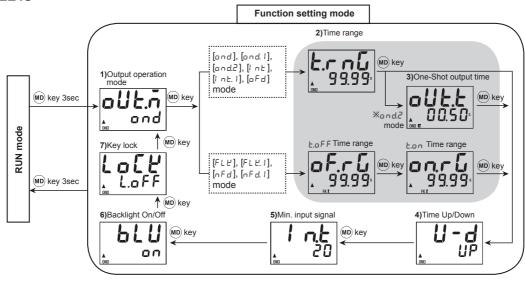
If no key is pressed over 60 sec in setting time change mode, it will return to Run mode.

XIf no key is pressed over 60 sec in setting time change mode, it will return to Run mode and previous parameter value is not stored.

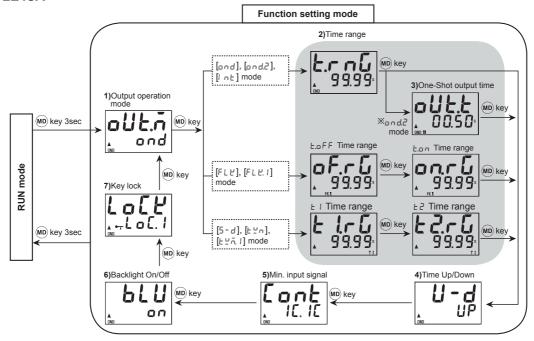
K-24 Autonics

■ Function Setting Mode

O LE4S



O LE4SA



■ Factory Default

O LE4S

Parameter		Factory default	
Output operation mode	oUt.ñ	ond	
Time range	t.r n G	9 9.99	
Time Up/Down	U - d	UP	
Min. input signal	I n.E	20	
Backlight On/Off	PLU	on	
Key lock	Lo[L	L.oFF	
Setting time	_	5 0.0 0	

O LE4SA

Parameter		Factory default
Output operation mode	oUt.ñ	ond
Time range	t.r n G	9 9.99
Time Up/Down	И- d	UP
Output contact	Cont	IE. IE
Backlight On/Off	ЬLU	٥٥
Key lock	Lo[Y	LoC.1
Setting time	_	50.00

(A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(P) Switching Mode Power Supplies

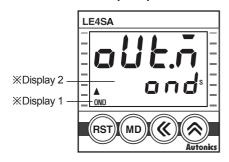
(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

K-25 **Autonics**

■ Output Operation Mode

• LE4S/LE4SA output operation mode



NO	XDisplay 1	※Display 2	Operation mode	LE4S	LE4SA
1	OND	and	ON Delay	0	0
2	ONDI	ond. I	ON Delay 1	0	
3	ONDII	on d.2	ON Delay 2	0	0
4	FK	FLE	Flicker	0	0
5	FKI	FLE.I	Flicker 1	0	0
6	INT	Int	Interval	0	0
7	INTI	Int.I	Interval 1	0	
8	ON OFF D	nFd	ON-OFF Delay	0	
9	ON OFF DI	nFd.1	ON-OFF Delay 1	0	
10	OFF D	oFd	OFF Delay	0	
11	λ- Δ	5-8	STAR-Delay	_	0
12	Т	Fil	Twin	_	0
13	TI	E≌n.1	Twin 1	_	0

• Output operation mode

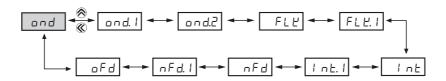


[Figure1]

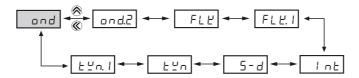
- 1) In function setting mode, it enters into output operation mode as shown in the [Figure 1].
- 3) Press (40) key to set output operation mode and move to next mode.
- 4) If pressing (w) key for 3 sec in any function setting mode, it will return to Run mode.

XOutput operation flowchart

< LE4S >



< LE4SA >

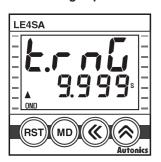


※The shaded parameter (□) is factory default.

K-26 Autonics

■ Time Range

• Time range specifications



Parameter		Time range specification
9.999s	(9.999s)	0.001sec to 9.999sec
99.99s	(99.99s)	0.01sec to 99.99sec
999.9s	(999.9s)	0.1sec to 999.9sec
9999s	(9999s)	1sec to 9999sec
99m59s	(99m59s)	0m01sec to 99min 59sec
999.9 m	(999.9m)	0.1min to 999.9min
9999 m	(9999m)	1min to 9999min
9 9h5 9m	(99h59m)	0h01min to 99hour 59min
9 <u>9.</u> 99h	(99.99h)	0.01hour to 99.99hour
999.9h	(999.9h)	0.1hour to 999.9hour
9999h	(9999h)	1hour to 9999hour

Ł.oFF time range Ł.o n time range



XTime range according to output operation mode

-Time range[Ł.r n []]

: and, and. I, and.2, I nt, I nt. I, aFd mode

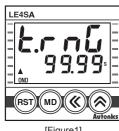
- L.o F F /L.on time range[o F.- [] /on,- []

:FLE,FLE.I,nFd,nFd.I mode

- £ 1/£ 2 time range[£ 1.- 6/£ 2.- 6]

:5-d, £ 4n, £ 4n. I mode

• Time range selection method



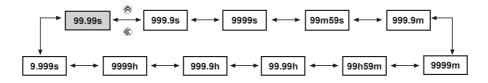
[Figure1]

When and, and. I, and. 2, I nt, I nt. I, aFd mode

- 1) In function setting mode, if it enters into time range mode, the characters will be displayed as shown in the [Figure 1].
- 2) Select the time range using

 and
 key. (refer to time range flowchart)
- 3) Press (MD) key to complete the time range setting and the next mode.
 - 4) If pressing we key for 3 sec, it will return to Run mode.
 - XWhen FLY, FLY, I, AFd, ם F. ר בן, ם ח.ר בן can be individually set.

XTime range flowchart



*The shaded parameter () is factory default.

(A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

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(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(P) Switching Mode Power Supplies

(Q) Stepper Motors

& Drivers & Controllers

(R) Graphic/ Logic Panels

K-27 **Autonics**

LE4S Series

• One-shot output time setting



[Figure2] ※Factory default

When output operation mode ON Delay 2[and.2],

- 1) In function setting mode, if it enters into One-shot output time setting mode as shown in the [Figure 2], the last digit will flash.
- 2) Set One-shot output time using **(**) and **(**) key. (setting range: 0.01s to 99.99s)
- 3) Pressing (MD) key to complete one-shot output time setting and move to the next mode.
- 4) If pressing (MD) key for 3 sec in any function setting mode, it will return to Run mode.

• Time progress UP/DOWN setting



[Figure3] ※Factory default

- 1) In function setting mode, if it advances to UP/DOWN setting mode, the characters will be displayed as shown in the [Figure 3].
- 2) Select UP (▲), dn (▼) using ⑥, ⑥ key.

- 3) Press MD key to complete UP/DOWN setting and move to the next mode.
- 4) If pressing (MD) key for 3sec in any function setting mode, it will return to Run mode.

• The minimum input signal setting (LE4S only)



[Figure4] ※Factory default

RESET, START and INHIBIT.

- 1) In function setting mode, if it enters into input signal setting mode, the characters will be displayed as shown in the [Figure 4].
- 2) Select 1ms or 20 ms using ((), (A) keys.

- 3) Press (MD) key to complete input signal width and move to the next mode.
- 4) If Pressing (10) key over 3 sec in any function setting mode, it will return to Run mode.

Output contact setting (LE4SA only)



Factory default

- 1) In function setting mode, if it enters into output contact setting mode, the characters will be displayed as shown in the [Figure 5].
- Select time limit 1c+instant limit 1c or time limit 2c using ⑥, ⊗ keys.
 (refer to LE4SA Connections on page K-22 for output contact connections)

- 3) Press (MD) key to complete output contact setting and move to the next mode.
- 4) If pressing (no) key for 3 sec in any function setting, it will return to Run mode.
- ※Except for Star-Delta, Twin and Twin 1 modes (₹ is set automatically)
- XIf pressing (ND) key in Run mode, output contact setting value will be displayed.

(if no key is pressed over 3 sec. it will enter into function setting mode.)

• Backlight ON/OFF setting



| Factory default | |

- In function setting mode, if it enters into Backlight ON/OFF setting mode, the characters will be displayed as shown in the [Figure 6].
- 2) Select Backlight on or off using ((), (*) key.



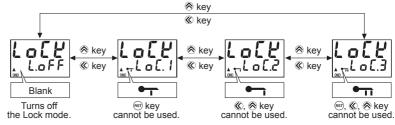
- 3) Press (M) key to complete Backlight ON/OFF setting and move to the next mode.
- 4) If pressing (w) key for 3 sec in any function setting mode, it will return to Run mode.

Key Lock setting



[Figure7] ※Factory default

- In function setting mode, if it enters into Key Lock setting mode, the characters will be displayed as shown in the [Figure 7].
- 2) Select L.oFF, LoC. 1, LoC. 2 or LoC. 3 using €, ♠ key.



- 3) Press (MD) key to complete key lock setting and move to the next mode.
- 4) If pressing (MD) key for 3 sec in any function setting mode, it will return to Run mode.

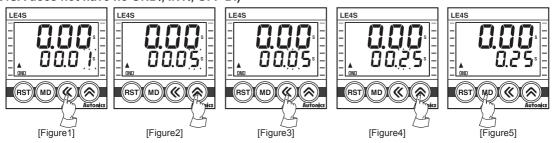
%Factory default for LE4S is L_DFF and Factory default for LE4SA is L_DC . I. %Key Lock function

Display	Function
L.o F F	Turns off the key Lock mode.
LoC.I	(RST) key cannot be used.
L o C.2	≪, ≪ key cannot be used.
LoC.3	RST, (), () key cannot be used.

Setting Time Change

Please set operation time according to following instruction as the setting is different depending on the output operation mode.

 Output operation mode: OND, ONDI, ONDII, INT, INTI, OFF D (LE4SA does not have no ONDI, INTI, OFF D.)



- 1) Press (key in RUN mode, time set digits will flash. [Figure 1]
- 2) Change setting time by using **(**C) or **(**R) key. [Figure 2,3,4]
 - Key: Shift the setting digits.
 - ⊗ key : Shift the flashing position value. As press ⊗ key once, it will increase by 1digit, number will increase faster by press ⊗ key for over 2sec
- 3) When the setting is completed, it will be stored and return to RUN mode by pressing @ key. [Figure 5]

(A) Photoelectric Sensors

(B) Fiber Optic

> (C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

06113013

Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distributior Boxes/Sockets

Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

> .) anel eters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors

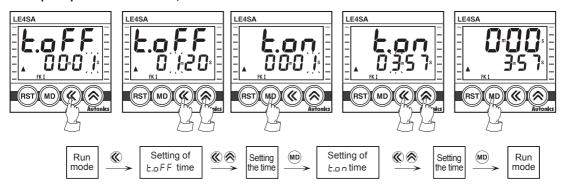
& Drivers & Controllers (R)

(R) Graphic/ Logic Panels (S) Field Network Devices

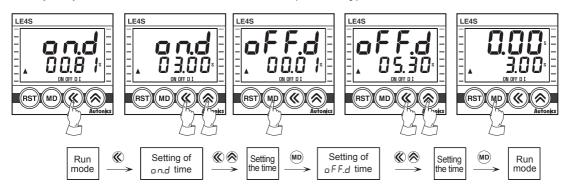
(T) Software

Software

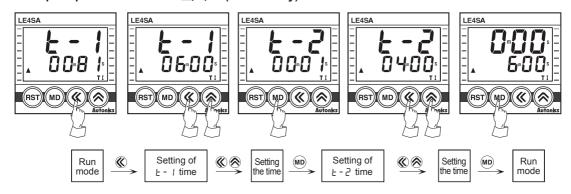
• Output operation mode: FK, FK I



• Output operation mode: ON OFF D, ON OFF D I (LE4S only)

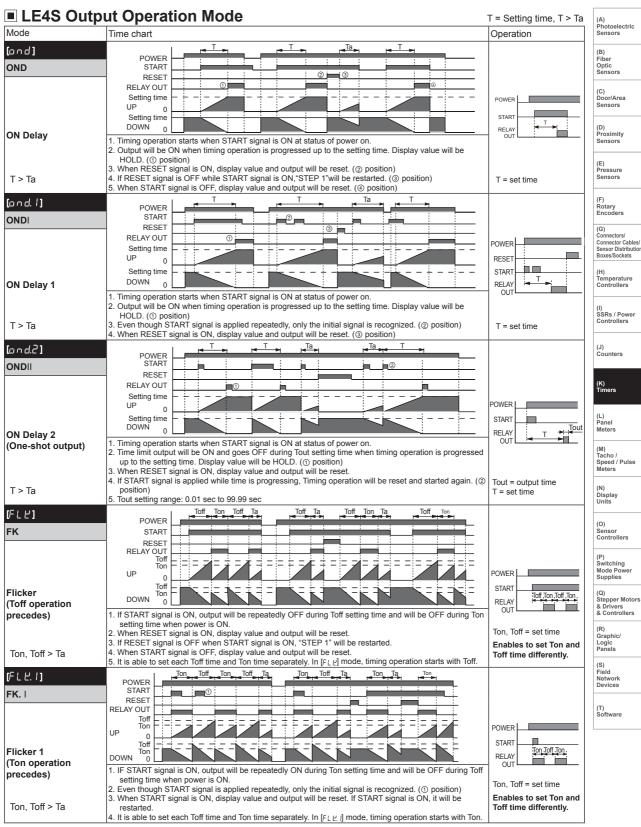


Output operation mode: 人-△, T, TI (LE4SA only)



- XIt is able to change the setting time during the time progressing, but be sure about the time progressing while changing of the time.
- *If pressing key while setting time is shorter than min. setting time, setting value will be flickering three times and it will be returned to setting mode again, not to RUN mode.
- XIf there is no additional key operations in 60 sec after entering into setting mode, it will be return to RUN mode. (set value is not stored.)
- XMin. setting time: 0.01 sec
 - (in case of: and, and I, and modes, it is able to set "0" since no min. setting time is applied.)

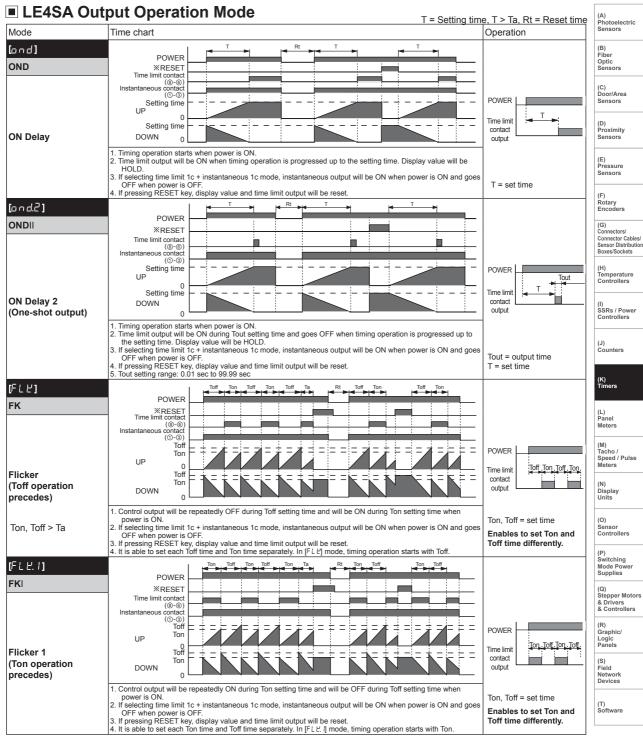
K-30 Autonics



※Initial status: UP mode-display value is "0", output is "OFF". DOWN mode-display value is "setting time", output is "OFF".

LE4S Output Operation Mode T = Setting time, T > Ta Mode Time chart Operation [n t] POWER INT START RESE1 RELAY OUT **POWER** Setting time START Setting time RELAY Interval DOWN OUT . Output will be ON when START signal is ON at status of power on and Timing operation starts 2. Output will be OFF when timing operation is progressed up to the setting time. Display value will be HOLD. 3. When RESET signal is ON, display value and output will be reset. (⊙ position) 4. If RESET signal is OFF when START signal is ON, "STEP 1" will be restarted. 5. When START signal is OFF, display value and output will be reset. (⊚ position) T > Ta T = set time Ta U nt. 1] POWER INT START RESET RELAY OUT POWER Setting time HP START Setting time RELAY Interval 1 DOWN OU. Output will be ON when START signal is ON at status of power on and Timing operation starts. 2. Output will be OFF when timing operation is progressed up to the setting time. Display value will be HOLD. 3. Even though START signal is applied repeatedly, only the initial signal is recognized. (① position) 4. If START signal is ON after timing operation is progressed up to the setting time, Output will be ON and setting T > Ta T = set time time will be reset and then timing setting starts. 5. When RESET signal is ON, display value and output will be reset. (② position) Ta [nFd]POWER ON OFF D START RESET RELAY OUT Setting time ON Delay OFF Delay POWER UP 0 START Setting time ON Delay OFF Delay DOWN Ton Toff RELAY **ON-OFF Delay** OUT If START signal is ON when power is on, Output will be ON when timing operation is progressed up to the Ton setting time (On-Delay). IF START signal is OFF, output will be ON when timing operation is progressed up to the Toff setting time (OFF-Delay). 2. If START signal is applied repeatedly, output is ON and display value will be reset. (① position) 3. When RESET signal is ON, display value and output will be reset. When RESET signal is OFF while START signal is ON, it will be operating as On-Delay. (② position) 4. It is able to est one Toff time and Tot time proceedly. T > Ta Ton. Toff = set time It is able to set each Toff time and Ton time separately [n F d. 1] POWER ON OFF DI START RESET RELAY OUT Setting time ON Delay UP POWER Setting time ON Delay DOWN START Ton ___ Toff RELAY **ON-OFF Delay 1** 1. If START signal is ON when power is on, timing operation starts. Output will be ON when timing operation is progressed up to the Ton setting time (On-Delay). IF START signal is OFF, output will be ON when timing operation is progressed up to the Toff setting time (OFF-Delay). 2. Output will be ON when START signal is ON and goes OFF during setting time and display value will be reset. (① position) Output will be OFF when START signal is OFF and goes ON during setting time and display value will be reset. ((i) posits When RESET signal is ON, display value and output will be reset. When RESET signal is OFF while START T > Ta signal is ON, it will be operating as On-Delay. (② position) 5. It is able to set each Toff time and Ton time separately. Ton. Toff = set time [oFd] POWER OFF D START RESE1 RELAY OUT POWER Setting time STAR Setting time **OFF Delay** OUT DOWN If START signal is ON when power is on, output will be ON. When START signal is OFF, timing operation starts. Output will be OFF when timing operation is progressed up T > Ta T = set time to the setting time. Display value will be HOLD. . When RESET signal is ON, display value and output will be reset.

**Initial status: UP mode-display value is "0", output is "OFF". DOWN mode-display value is "setting time", output is "OFF".



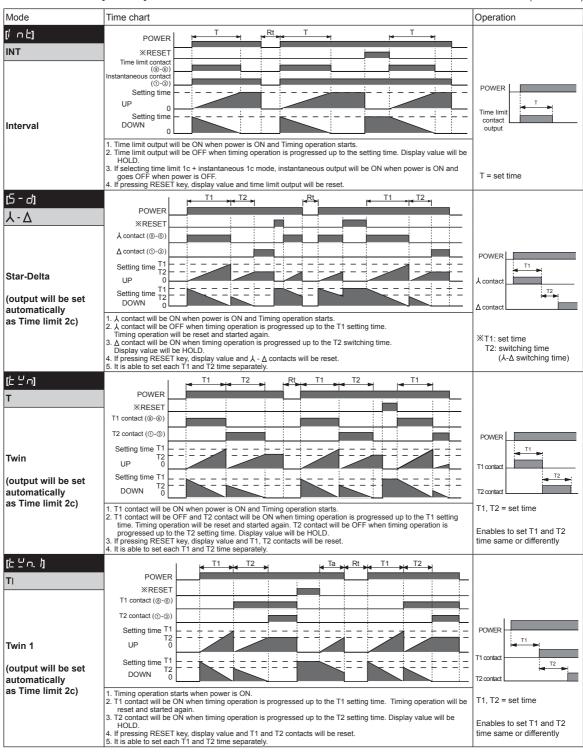
**Initial status: UP mode-display value is "0", output is "OFF". DOWN mode-display value is "setting time", output is "OFF".

XInstantaneous contact (OUT2) will be returned when power is off.

**RESET key is locked for default set and release the lock to use.

■ LE4SA Output Operation Mode

Rt: Reset time (Min. 500ms)



XInitial status: UP mode-display value is "0", output is "OFF". DOWN mode-display value is "setting time", output is "OFF". ■

*Instantaneous contact (OUT2) will be returned when power is off.

XRESET key is locked for default set and release the lock to use.

Proper Usage

⚠ Caution

It may give an electric shock if touch the input signal terminal (between START, RESET, INHIBIT and terminal ②) when the power is supplied.

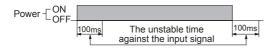
O Power connection

- Connect AC power line between (②-⑦) for LE4S, LE4SA AC power type. Be careful of power connection for DC power type. (②← ⊖, ⑦ ← ⊕)
- LE4S, LE4SA work stably within range of rated power.
 (if using power line with another high voltage line or energy line in the same conduit, it may cause inductive voltage.

Therefore please use separate conduit for power line)

O Power start

 Caution for power rising time (100ms) after power on and power falling time (100ms) after power off.



Power ON Start

LE4SA model is starting after 100ms of supplying the power due to rising time of other devices (sensor, etc.) (refer to the above figure.)

For power ON Start, under 100ms setting may cause unstable operation. (it operates normally over 100ms setting)

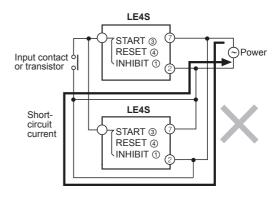
For using under 100ms time operation, use LE4S, Signal ON Start type.

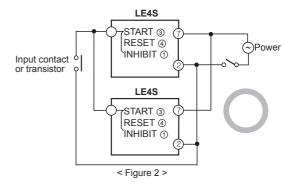
 Supply the power at once by a switch or relay contact, otherwise it may cause timing error.

O Input/Output

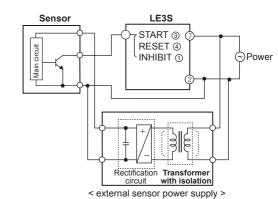
- Power terminal and Input terminal have not been insulated because there is no power transformer in this Timer.
 - When using the sensor of SSR output type with input terminal of timer, please check whether Double insulated or not.
 - ② Please use double insulated relay when connecting relay output with input terminal.
- Please use 8 Pin socket when connecting this Timer with other equipment and do not touch the socket when power on.
- Please use Power supply with over current protection circuit. (250V 1A fuse)
- When using relay contact as input signal, please use a contact that can function reliable at 5VDC, 1mA.
- In case of connecting START terminal (③) and power terminal (②) of LE4S, do not use it to start at the same time applying power.
- LE4S is transformer less type, therefore please check following for connecting relay contact for input signal and transistor.

 When connecting more than 2 timers with 1 relay contact for input or transistor, please wire following <Figure 2>.
 Please use relay contact or transistor to start.
 (time error can occurs under 100ms setting because of rising time of Timer).





 Please use transformer with primary and secondary isolated for input.



- Be sure that the specifications of this unit. Because when supplying the power to LE4SA, this unit operates instantly. (if supplying the power without the right checking, it may cause malfunction.)
- und, und. I, und.2 operation modes are available to set as "0".

(A) Photoelectric Sensors

(B) Fiber Optic

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

> N) Display Inits

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

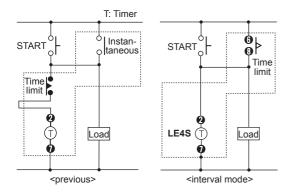
(S) Field Network Devices

(T) Software

LE4S Series

Interval mode

It is able to make Instantaneous ON and time limit OFF (holding device) with using interval mode.



Change of output operation mode and timer range

If changing output operation mode or time range, previous reset value will be deleted.

But, UP/DOWN selection mode and lock mode are exception.

O Change of preset value

 If changing setting value while time progressing, new preset value should be higher than previous preset value.

Otherwise output may work while changing setting value.

 If changing setting value while it is running, it will work as changed setting value. Please use lock function in order to avoid malfunction.

O Noise

We test 2kV, pulse width 1 μ s against Impulse voltage between power terminals and 1kV, pulse width 1 μ s at noise simulator against external noise voltage. Please install MP condenser (0.1 to 1 μ F) or oil condenser between power terminals when over impulse noise voltage occurs.

© Environment

Please avoid the following places;

- Place where the unit may be damaged by strong impact or vibration.
- Place where there is corrosive gas or flammable gas and water, oil, dust exist.
- Place where magnetic and electrical noise occurs.
- Place where there is high temperature and humidity beyond rated specification.
- Place where there is strong alkalis and acids.
- Place where there is direct ray of sun.

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