DIN W48×H48mm Digital backlight LCD timer

Features

Upgraded 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: 100msBacklight ON/OFF function

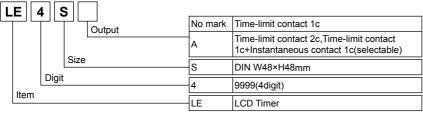
Original Features

- Wide time range(0.01sec. to 9999hour)
- Lock setting function for saving setting data
- Soft touch setting
- High visibility display with backlight

Please read "Caution for your safety" in operation manual before using.



Ordering information



XSockets (PG-08, PS-08, PS-M08) are sold separately.

Specifications

	LE4S	LE4SA	
	Multi time and Multi operation		
nethod	LCD display(Backlight)		
ipply	24-240VAC 50/60Hz, 24-240VDC universal		
e voltage range	90 to 110% of rated voltage		
onsumption	24-240VAC: Max. 4.5VA, 24-240VDC: Max. 2W	24-240VAC: Max. 4VA, 24-240VDC: Max. 1.6W	
me	Max. 100ms		
START			
INHIBIT	1ms, 20ms(selectable)	_	
RESET			
START	No-voltage input		
INHIBIT		_	
RESET	Impedance at open-circuit : Min. 100kΩ		
peration	Signal ON Start	Power ON Start	
Contact type	Time limit SPDT(1c)	Selectable Time limit DPDT(2c), Time limit SPDT(1c)+ Instantaneous SPDT(1c) (depends on operation mode)	
Contact capacity	250VAC 5A resistive load	250VAC 3A resistive load	
Mechanical	Min. 10,000,000 operations		
Electrical	Min. 100,000 operations (at rated contact capacity)		
ode	10 operation modes	8 operation modes	
Ambient temperature	-10 to 55°C, storage: -25 to 65°C		
Ambient humidity	35 to 85%RH		
у	Bracket		
	pply e voltage range insumption ine START INHIBIT RESET START INHIBIT RESET oeration Contact type Contact capacity Mechanical Electrical ode Ambient temperature Ambient humidity	Multi time and Multi operation nethod LCD display(Backlight) pply 24-240VAC 50/60Hz, 24-240VDC universal voltage range 90 to 110% of rated voltage nsumption 24-240VAC: Max. 4.5VA, 24-240VDC: Max. 2W ne Max. 100ms START INHIBIT 1ms, 20ms(selectable) RESET START • No-voltage input Impedance at short-circuit: Max. 1kΩ, Residual voltage: Max. 0.5V, Impedance at open-circuit: Min. 100kΩ Signal ON Start Contact type Time limit SPDT(1c) Contact capacity 250VAC 5A resistive load Mechanical Min. 10,000,000 operations Electrical Min. 100,000 operations (at rated contact capacity) ode 10 operation modes Ambient humidity 35 to 85%RH	

XEnvironment resistance is rated at no freezing or condensation.

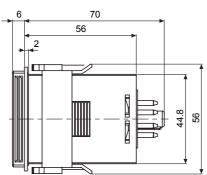
K-20 Autonics

Specifications

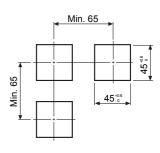
— - r · · · · · · ·				
Model		LE4S	LE4SA	
Repeat error			Max. ±0.01% ±0.05sec.	
Setting error		Max. ±0.01% ±0.05sec.(Power ON Start)		
Voltage error		Max. ±0.005% ±0.03sec.(Signal ON Start)		
Temperatu	re error			
Insulation resistance 100MΩ(at 500VDC megger)				
Dielectric s	Dielectric strength 2000VAC 50/60Hz for 1 minute			
Noise strength ±2kV the square wave noise(pulse width: 1µs) by th		±2kV the square wave noise(pulse width: 1µs) by the no	noise simulator	
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 1hour		
Vibration	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10 minutes		
Chaola	Mechanical	300m/s² (approx. 30G) in each of X, Y, Z directions for 3 times		
Shock	Malfunction	100m/s² (approx. 10G) in each of X, Y, Z directions for 3 times		
Approval		(€ c FN us		
Unit weight		Approx. 98g		

Dimensions

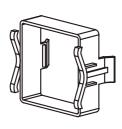


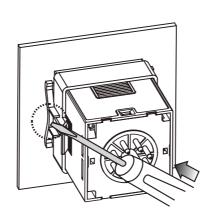


• Panel cut-out



• Bracket and mounting





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

(B) Fiber optic sensor

> (C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

> F) Rotary

encoder

Socket

Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L) Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

> D) ensor ontroller

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controlle

(R) Graphic/ Logic panel

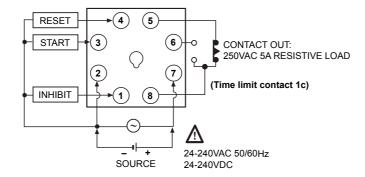
(S) Field network device

(T) Software

(U) Other

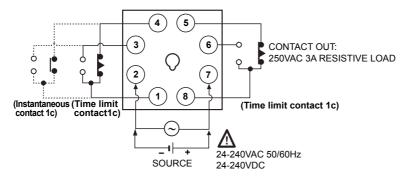
Connections

O LE4S



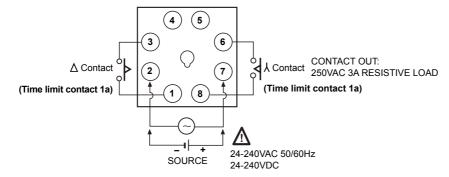
O LE4SA

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



**Time limit contact 1c + Instantaneous contact 1c or Time limit contact 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.

Solid-state input

Sensor 12-24VDC LE4S T - O START RESET INHIBIT Input 0V

• Q1 is ON : Operating

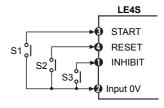
• Sensor : NPN open collector output

Sensor 12-24VDC LE4S RL + G START RESET INHIBIT Q2 Input 0V

• Q2 is ON : Operating

Sensor : NPN universal output

Contact input

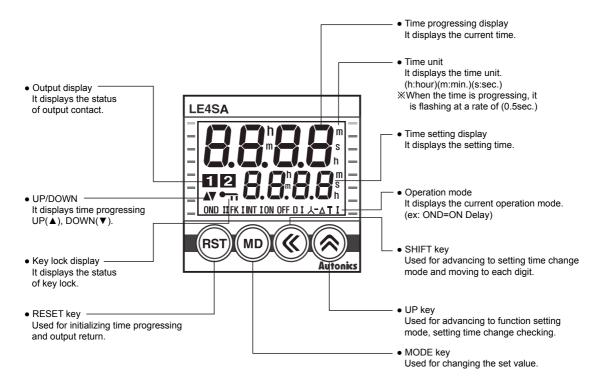


• S1, S2, S3 are ON: Operating

• Please use reliable contact enough to flow 5VDC 1mA.

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

Parts description



(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area

(D) Proximity

(E) Pressure sensor

(F)

encoder

Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

L) Panel neter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

> D) ensor ontroller

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controlle

(R) Graphic/ Logic panel

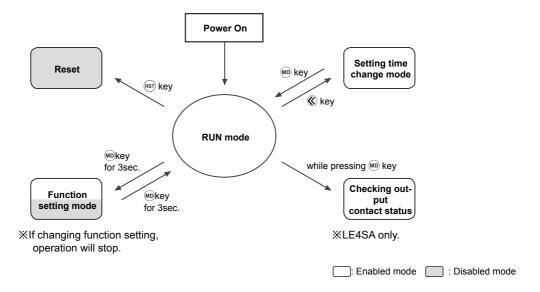
(S) Field network device

(T) Software

> (U) Other

■ 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 enter 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 (MD) 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 @ key to return to Run mode. Even if signal is input when changing setting time, time progressing and output control will be continue.

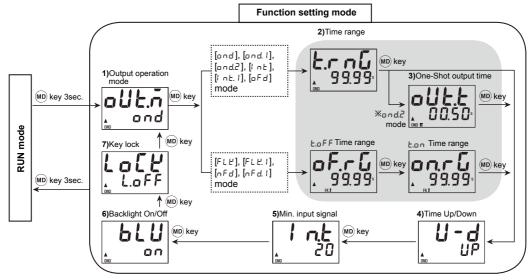
If no key is pressed over 60 sec. in setting time change mode, it will return to Run mode.

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.

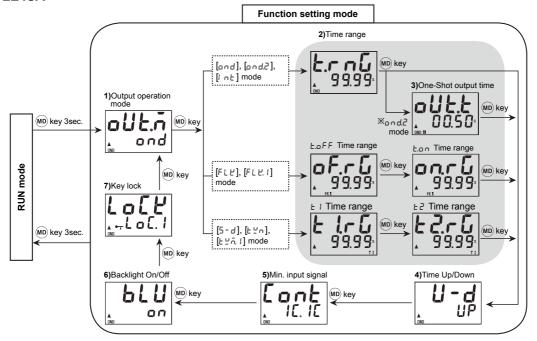
K-24 Autonics

■ Function setting mode

O LE4S



O LE4SA



■ Factory default

O LE4S

© : 0			
Parameter		Factory default	
Output operation mode	o U Ł.ñ	ond	
Time range	t.r n G	99.99	
Time Up/Down	U-d	UP	
Min. input signal	I n.E	20	
Backlight On/Off	PLU	on	
Key lock	LoCY	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	99.99
Time Up/Down	U - d	UP
Output contact	Cont	1E. 1E
Backlight On/Off	ЬLU	٥٥
Key lock	Lo[Y	LoC.1
Setting time	_	5 0.0 0

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary

(G)

(H) Temp.

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L) Panel

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

> D) ensor ontroller

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controlle

Driver&Controlle

(R) Graphic/ Logic panel

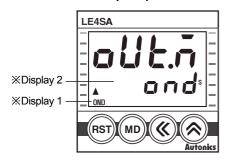
(S) Field network device

(T) Software

(U) Other

■ Output operation mode

• LE4S/LE4SA output operation mode



NO	※Display 1	XDisplay 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-d	STAR-Delay	_	0
12	Т	Fil	Twin	_	0
13	TI	E≌n.1	Twin 1	_	0

• Output operation mode

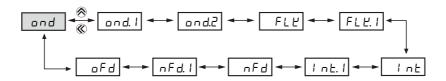


[Fig.1]

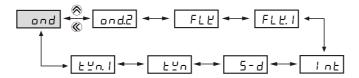
- 1) In function setting mode, it enter into output operation mode as shown in the [Fig. 1].
- 3) Press (40) key to set output operation mode and move to next mode.
- 4) If pressing @ key for 3 sec. in any function setting mode, it will return to Run mode.

XOutput operation flowchart

< LE4S >



< LE4SA >



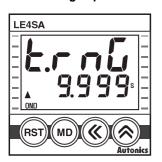
※The shaded parameter(

) is factory default.

K-26 Autonics

■ Time Range

• Time range specifications



Parameter		Time range specification
9.999s	(9.999s)	0.010sec. 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.
9 9m5 9 s	(99m59s)	0m01sec. to 99min. 59sec.
99 <u>9.</u> 9 m	(999.9m)	0.1min. to 999.9min.
9999m	(9999m)	1min. to 9999min.
9 9h5 9m	(99h59m)	0h01min. to 99hour 59min.
99.99h	(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

¿ ≥ time range

XTime range according to output operation mode

-Time range[Ł.r n []]

: and, and, I, and, Z, I nt, I nt, I, aFd mode

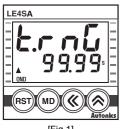
- L.o F F /L.on time range[o F.r [] /on,r []]

: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



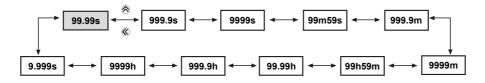
[Fig.1]

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

- 1) In function setting mode, if it enter into time range mode, the characters will be displayed as shown in the [Fig. 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 (MD) key for 3 sec., it will return to Run mode.

XWhen FLY, FLY, I, AFd, ه F. ـ ـ آ , ه م. ـ آ can be individually set.

XTime range flowchart



※The shaded parameter(
☐) is factory default.

(A) Photo electric sensor

(C) Door/Area sensor

(D) Proximity

(E) Pressure

(I) SSR/

(K) Timer

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(P) Switching mode powe supply

(Q) Stepper motor& Driver&Co

(R) Graphic/ Logic panel

(T) Software

K-27 **Autonics**

LE4S Series

• One-shot output time setting

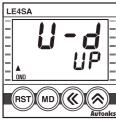


[Fig.2] ※Factory default

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

- 1) In function setting mode, if it enter into One-shot output time setting mode as shown in the [Fig. 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



[Fig.3] ※ Factory default

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



[Fig.4] ※Factory default

RESET, START and INHIBIT.

- 1) In function setting mode, if it enter into input signal setting mode, the characters will be displayed as shown in the [Fig. 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 (key over 3 sec. in any function setting mode, it will return to Run mode.

Output contact setting(LE4SA only)



راجان الجازية الجازية

- 1) In function setting mode, if it enter into output contact setting mode, the characters will be displayed as shown in the [Fig. 5].
- 2)Select time limit 1c+instant limit 1c or time limit 2c using ©, ⊗ keys.

(Refer to LE4SA Connections on K-20 page for output contact connections)

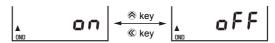
- 3) Press (MD) key to complete output contact setting and move to the next mode.
- 4) If pressing we key for 3 sec. in any function setting, it will return to Run mode.
- ※Except for Star-Delta, Twin and Twin 1 modes(₹ is set automatically)
- XIf pressing (m) key in Run mode, output contact setting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

Backlight ON/OFF setting



XFactory default

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



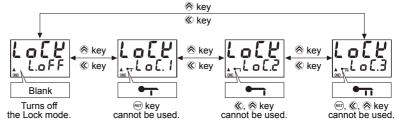
- 3) Press (MD) key to complete Backlight ON/OFF setting and move to the next mode.
- 4) If pressing @ key for 3 sec. in any function setting mode, it will return to Run mode.

Key Lock setting



XFactory default

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



- 3) Press (MD) key to complete key lock setting and move to the next mode.
- 4) If pressing (40) key for 3 sec. in any function setting mode, it will return to Run mode.

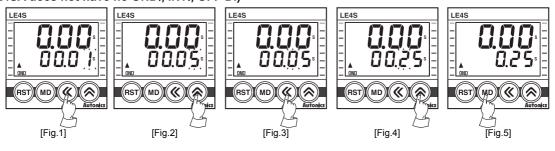
※Factory default for LE4S is L.□FF and Factory default for LE4SA is L□E. I. **XKey Lock function**

•	
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.
L o C.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 OND), INT), OFF D.)



- 1) Press (key in RUN mode, time set digits will flash [Fig. 1]
- 2) Change setting time by using © or key.[Fig. 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.[Fig. 5]

(B) Fiber optic senso

(C) Door/Area

(D) Proximity

(E) Pressure

(I) SSR/ Power controller

(K) Timer

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(P) Switching mode powe supply

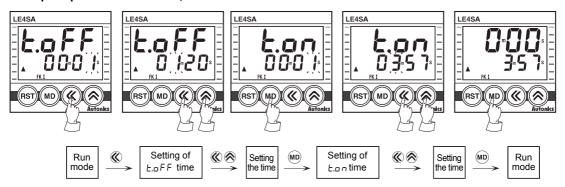
motor& Driver&Co

(R) Graphic/ Logic panel

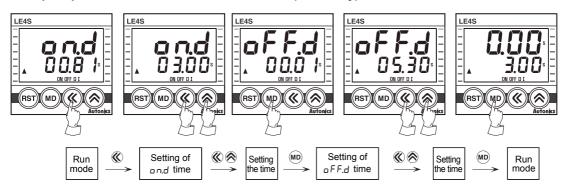
(S) Field network device

K-29 **Autonics**

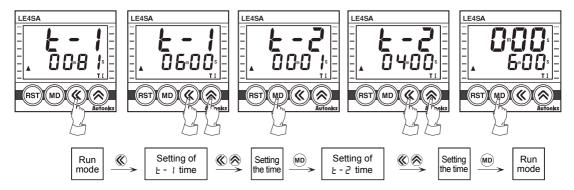
• Output operation mode : FK, FK I



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

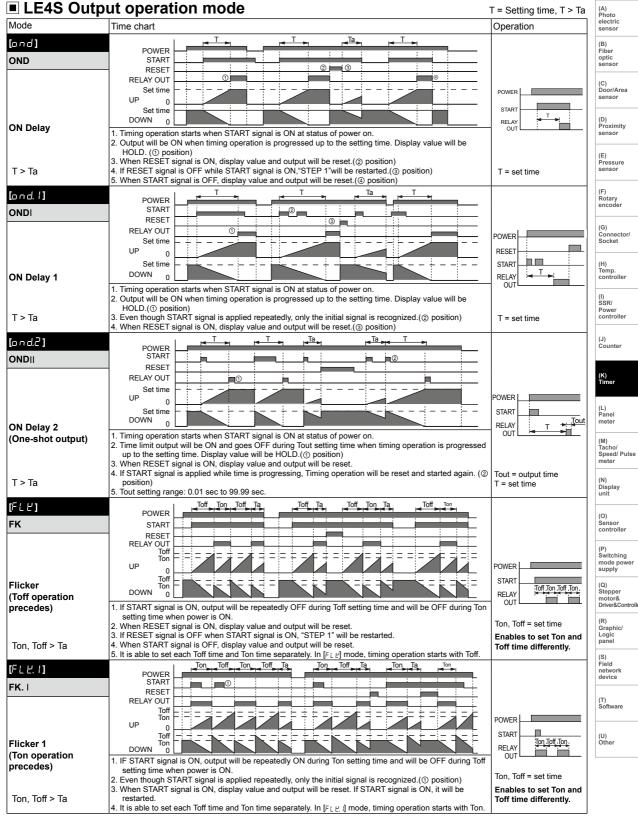


• Output operation mode: 人-△, T, TI (LE4SA only)



- 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 I modes, it is able to set "0" since no min. setting time is applied.)

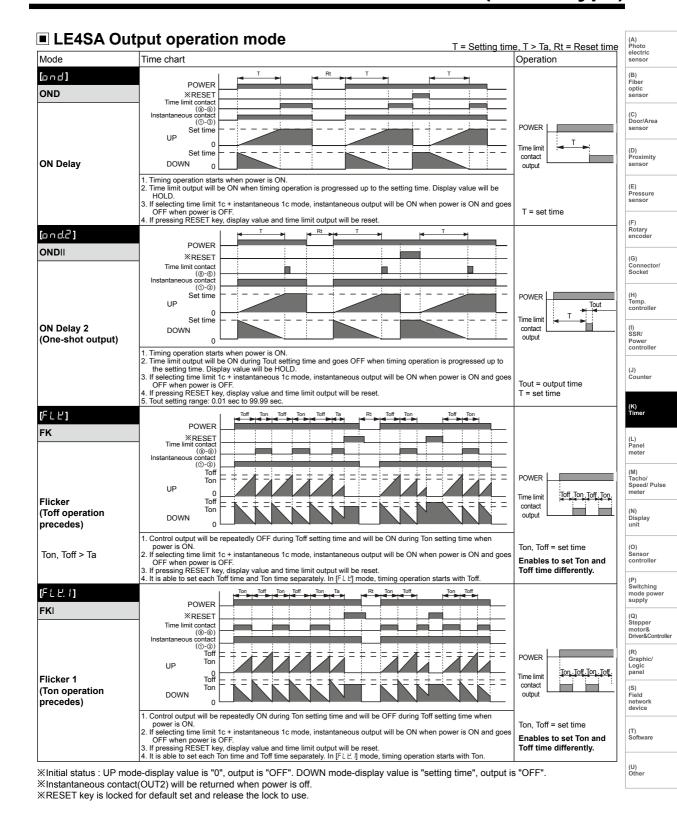
K-30 Autonics



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

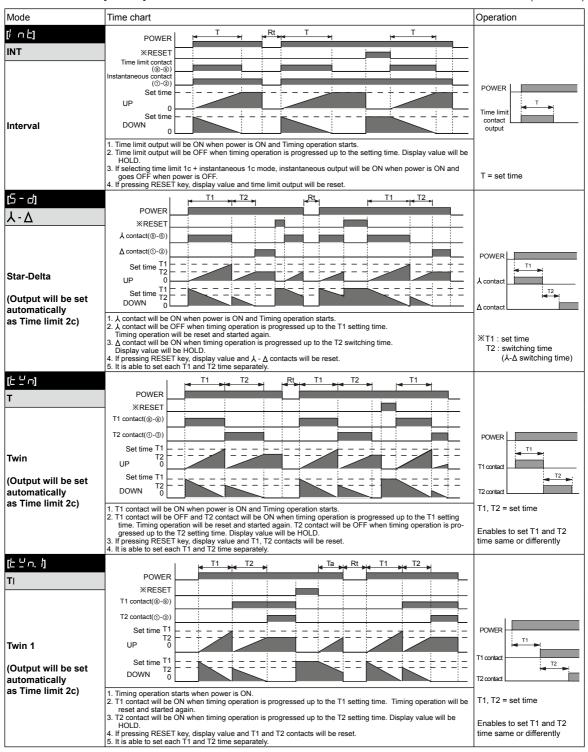
LE4S Output operation mode T = Setting time, T > Ta Mode Time chart Operation [nt] POWER INT START RESE1 RELAY OUT **POWER** Set time START Set time RELAY Interval DOWN OUT 1. Output will be ON when START signal is ON at status of power on and Timing operation starts 2. Output will be OFF when timing 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 I" will be restarted. 5. When START signal is OFF, display value and output will be reset.() position) T > Ta T = set time Ta [nt. 1] POWER INTI START RESET RELAY OUT POWER Set time START Set 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 . When RESET signal is ON, display value and output will be reset.(② position) Та Та [nFd]POWER ON OFF D START 1 RESET RELAY OUT POWER Ton START Toff Ton Ton Toff DOWN 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). | Company the for setting time (UFF-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) 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** Toff Ton POWER START DOWN 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 (OrF-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. (① positi 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 Set time STAR **OFF Delay** Set time 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".



■ 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".

XInstantaneous 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.

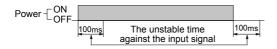
O Power connection

- 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 seperate 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 ower ON Start, under 100ms setting may cause unstable operation. (it operates normally over 100ms setting)

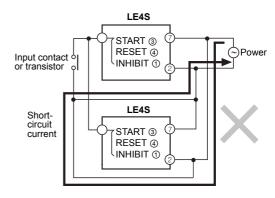
For using under 100ms time operation, use LE4S, Signal ON Start type.

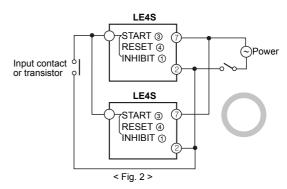
 Supply the power at once by a switch or relay contact, otherwise it may cause timing error.

O Input/Output

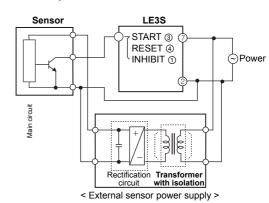
- Power terminal and Input terminal have not been insulated because there is no power transformer in this Timer.
- ① When using the sensor of SSR output type with input terminal of timer, please check whether Double insulated or not.
- ② Please use double insulated relay when connecting relay output 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 <Fig. 2 >.
 Please use relay contact or transistor to start.
 (Time error can occurs under 100ms setting because of rising time of Timer).





 Please use transfomer 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.)
- ond, ond. I, ond. operation modes are available to set as "0".

Autonics

(A) Photo electric sensor

(B) Fiber optic sensor

> (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

(L) Panel meter

(M) Tacho/ Speed/ Pulse

(N) Display unit

Sensor controller

(P) Switching mode power supply

(Q) Stepper motor& Driver&Controller

(R) Graphic/ Logic panel (S) Field network device

network device (T) Software

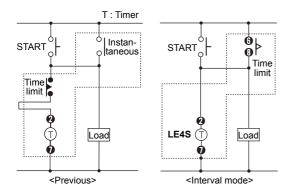
(U) Other

K-35

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.

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 condensor (0.1 to 1 μ F) or oil condensor between power teminals when over impulse noise voltage occurs.

© Environment

Please avoid the following places;

- Where this product may be damaged by strong impact or vibration.
- Where there are corrosive gas or flammable gas and water, oil, dust exist.
- Where magnetic and electrical noise occurs.
- Where there are high temperature and humidity beyond rated specification.
- Where there are strong alkalis and acids.
- Where there are direct rays of sun.

K-36 Autonics