Compact LCD Timer

DIN W48×H24mm, Indication only, LCD timer

■ Features

Upgraded version of LE7N series

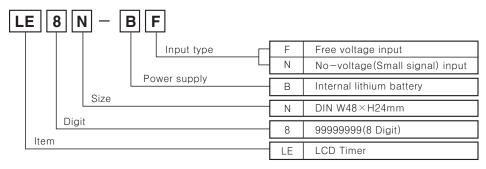
- Compact size indicator
- •Internal lithium battery
- •Screw terminal type (Terminal protection cover)
- •LCD display
- ●Built-in microprocessor
- •Protection structure IP66 (Front panel only)







Ordering information



Specifications

Series			LE8N-BN	LE8N-BF	
Digit		8 Digits			
Display		LCD Zero Blanking type (Height: 8.7mm)			
Operation method		Count up mode			
Power supply		Built-in lithium battery			
Input type		No-voltage input Free voltage input		Free voltage input	
Start input		• Impe	dual voltage : Max. 0.5VDC dance at short-circuit : 10kΩ dance at open-circuit : 750kΩ	High: 24-240VAC / 6-240VDC Low: 0-2VAC / 0-2.4VDC	
RESET input		No-voltage input			
Min.signal width of RESET		Min. 20ms			
Time range (TS1)		(★1)	9999.59.59(h.m.s), 99999.59.9(h.m), 999999.59(h.m)		
Time range (TS2)		(★1)	(1) 9999H59.9(h.m), 99999H59(h.m), 999999H.9(h)		
Time error		±0.01% ±50ms(Repeat error, Time error, Temperature error)			
Battery life cycle		Approx. over 10 years(at 20℃)			
External switch		SW1(Front reset key Lock switch), SW2(Time range selection switch)			
Insulation resistance		Min. 100MΩ (at 500VDC megger)			
Dielectric strength		(★2) 2000VAC 60Hz for 1 minute			
VIDIA	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 1 hour			
	Malfunction	0.3mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 10 minutes			
Shock	Mechanical	300m/s ² (Approx. 30G) in X, Y, Z directions for 3 times			
	Malfunction	100m/s ² (Approx. 10G) in X, Y, Z directions for 3 times			
Protection		IP66(When using waterproof rubber for front panel)			
Ambient Temperature		-10 to 55 ℃ (at non-freezing status)			
Storage Temperature		-25 to 65℃ (at non-freezing status)			
Ambient humidity		35 to 85%RH			
Approval		(€ c Fu us			
Unit weight		Approx. 58g			

※(★1)Select TS1, TS2 using inner jump pin(JP1).

(A) Photo electric sensor

(B) Fiber sensor

Door/Area

Proximity sensor

Pressure sensor

encoder

Connector/ Socket

Temp.

SSR/ Power controller

(J) Counter

(K) Timer

(L) meter

Tacho/ Speed/ Pulse meter

(N) Display unit

Sensor controller

Switching power supply

(Q) Stepping motor & Driver & Controlle

Graphic/ Logic panel

(S) Field network device

Production stoppage models & replacement

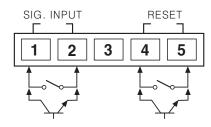
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^{*(★2)}No-voltage input: Between all terminals and case, Free voltage input: Between input terminal and reset input terminal, all terminals and case

LE8N Series

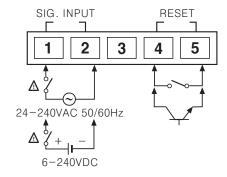
■ Connections

●No-voltage input



- *Use reliable contacts enough to flow 5μA of current.
- *Terminal 2 and 5 are connected inside. (Non-isolation)

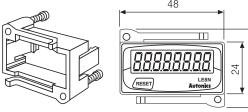
•Free voltage input

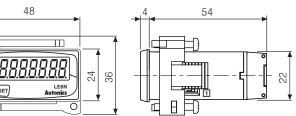


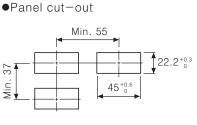
*Terminal 1, 2 and 4, 5 are isolated.

Dimensions







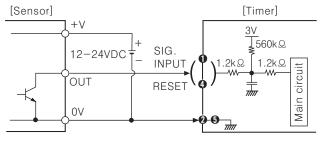


(Unit:mm)

Input connections

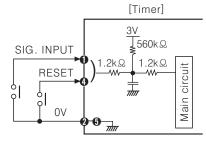
○No-voltage input (Standard sensor: NPN open type sensor)

●Solid-state input



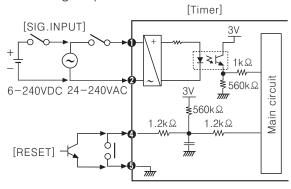
- **※②** and **⑤** are connected inside.

Contact input



*Please use reliable contacts enough to flow 3VDC 5μA of current.

©Free voltage input



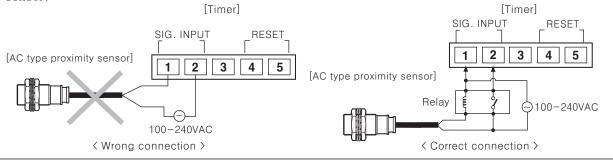
- **AC type proximity sensor cannot be used as the source of count input signals.
- ※Input terminal ♠, ♠ and Reset terminal ♠, ♠ are insulated inside.
- $\ensuremath{\text{\#}} \textsc{It}$ is not possible to reset with AC power or DC power.
- *When relay contact is used as the source of RESET signal, please use reliable contacts enough to flow 3VDC 5μ A of current.

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Compact LCD Timer

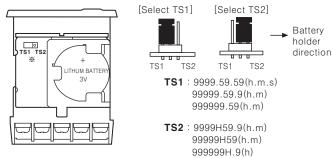
OInput from AC type proximity sensor

Please add input relay as shown below to prevent malfunction caused by current leakage of the proximity sensor.

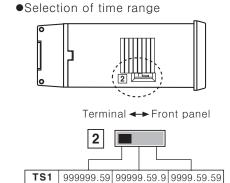


■Time specification(TS1, TS2) and time range

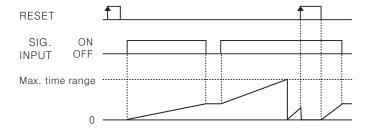
•Selection of time specification(TS1, TS2)



**Please supply RESET signal(Front or external RESET terminal) after change time range during the operation.

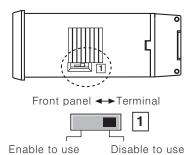


■ Time operation



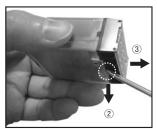
■Enable / Disable front reset key

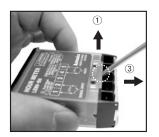
TS2 999999H.9 99999H59 9999H59.9



Case detachment and battery replacement

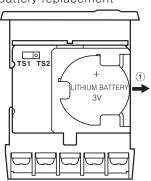
•Case detachment





**Hold up Lock part toward ①, ② of the product with the tool and pull toward ③, the case is detached.
▲ Please be careful of the injury caused by tools.

Battery replacement



- 1) Detach the case.
- 2) Push the battery and detach toward ①.
- 3) Insert new battery with correct alignment of polarity pushing toward opposite of ①.
- *Battery is sold separately.
- *Do not burn up or disassemble the lithium battery.

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area

(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 meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

Graphic/ Logic panel

(S) Field network device

(T) Production stoppage models & replacement

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