



# Compact LCD Display Timer

## ■ Connections

Input type	No-backlight	Backlight function
No-voltage input type	<p>●LE8N-BN<sup>※1</sup></p>	<p>●LE8N-BN-L<sup>※2</sup></p>
Voltage input type	<p>●LE8N-BV<sup>※1</sup></p>	<p>●LE8N-BV-L<sup>※2</sup></p> <p>※Backlight power is available as signal input and reset.</p>
Free voltage input type	<p>●LE8N-BF</p> <p>※Terminal (1, 2) and (4, 5) are insulated inside.</p>	

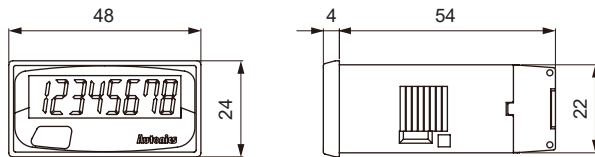
※1: Terminal 2 and 5 are connected inside. (non-isolated)

※Use reliable contacts enough to flow 5 $\mu$ A current.

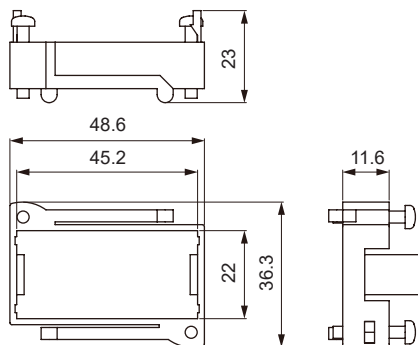
※2: Terminal (1, 2, 3) and (4, 5) are insulated inside.

## ■ Dimensions

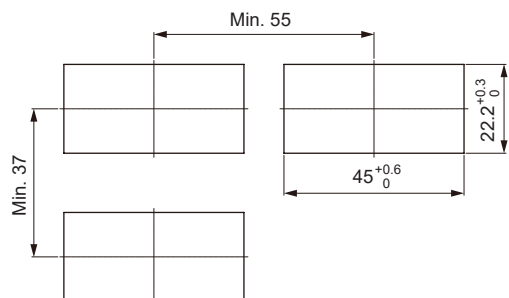
(unit: mm)



### ◎ Bracket



### ◎ Panel cut-out



SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

(K) SSRs

(L) Power Controllers

(M) Counters

(N) Timers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

(T) Switching Mode Power Supplies

(U) Recorders

(V) HMIs

(W) Panel PC

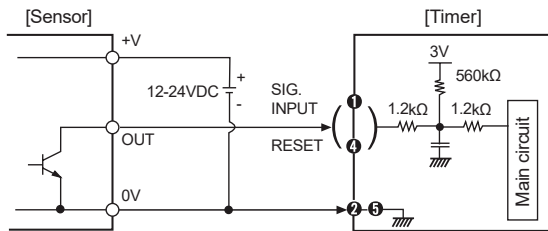
(X) Field Network Devices

# LE8N Series

## Input Connections

### No-voltage input (standard sensor: NPN open collector output type)

#### Solid-state input



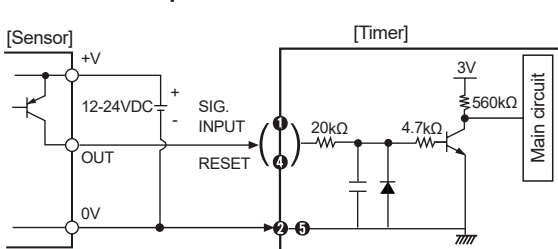
※When power is applied to terminal No ① and ④, input terminal circuit can be broken and a malfunction can occur. (NPN output, PNP output, PNP open collector output type sensor cannot be used.)

※② and ⑤ are connected inside.

※For backlight function model, the input terminals are ①, ③ and the GND terminal is ②.

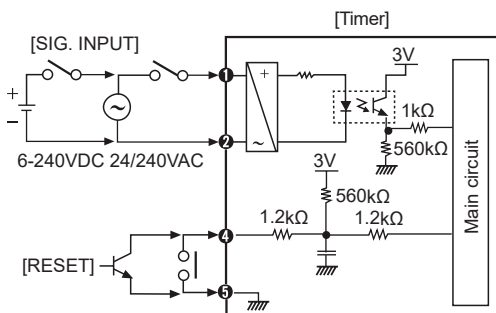
### Voltage input (standard sensor: PNP open collector output type)

#### Solid-state input

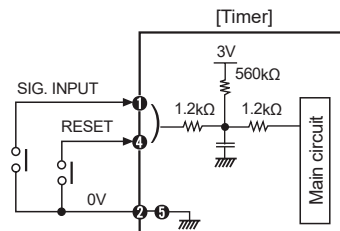


※For backlight function model, the input terminals are ①, ③ and the GND terminal is ②.

### Free voltage input

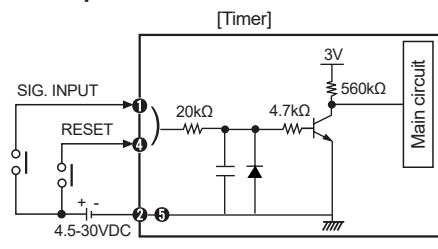


#### Contact input



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

#### Contact input



※Use reliable contacts enough to flow 3VDC 5μA of current.

※AC type proximity sensor cannot be used as the source of input signals.

※Input terminal (①, ②) and reset terminal (④, ⑤) are insulated inside.

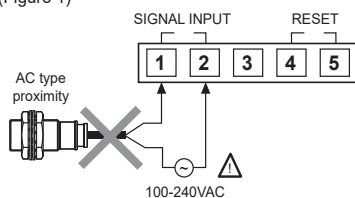
※It is not possible to reset with AC power or DC power.

※When relay contact is used as the source of RESET signal, please use reliable contacts enough to flow 3VDC 5μA of current.

### Input from AC type proximity sensor

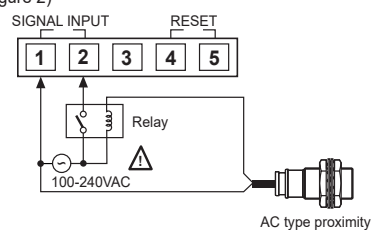
In case of free voltage input type, do not connect AC proximity sensors instead of a switch as shown in the figure 1. It may cause malfunction due to sensor's leakage current. Connect a relay as shown in the figure 2.

(Figure 1)



<example of wrong connection>

(Figure 2)



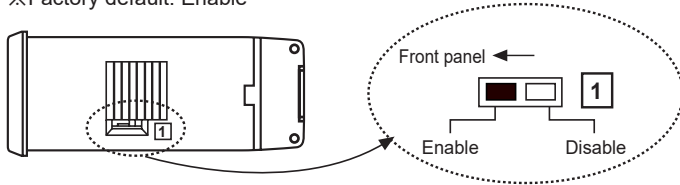
<example of correct connection>

# Compact LCD Display Timer

## Set Switch

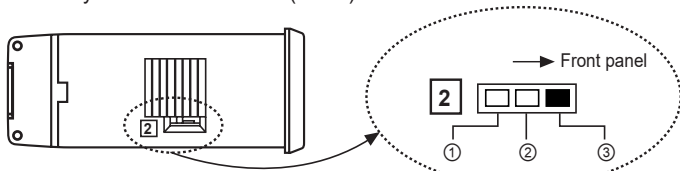
### SW1 setting ( 1 switch )

SW1 is a switch to Enable/Disable the front panel RESET key.  
 ※Factory default: Enable



### SW2 setting ( 2 switch )

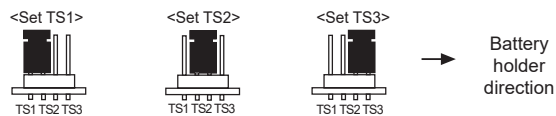
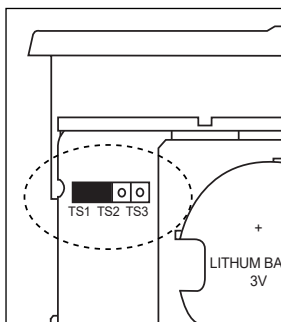
SW2 is a switch for setting time range.  
 ※Factory default: 9999.59.59 (h.m.s)



※Refer to "<Time range>" table of SW3 for ①, ②, ③ descriptions.

### SW3 setting

SW3 is a switch for setting time specification. TS1, TS2, TS3 (※Factory default: TS1)

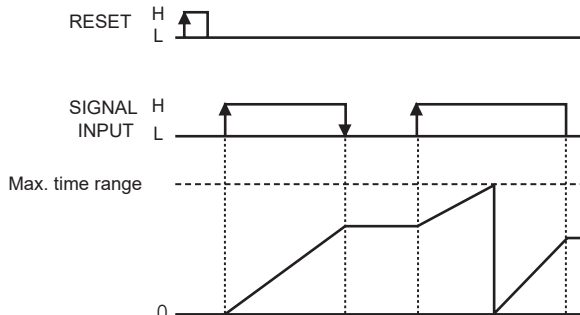


<Time range>※1

	TS1	TS2	TS3
①	hour. min. 9999.99.59	sec. 9999.9999	hour. 9999.99.9h
②	hour. min. 9999.59.59	day. hour 9999.d2.39	hour. min. 9999.h5.9
③	hour. min. sec. 9999.59.59	day. hour. min. 9999.2.3.59	hour. min. 9999.h5.9.9

※1: Time range is set as SW2, SW3 combination.

## Time Operation



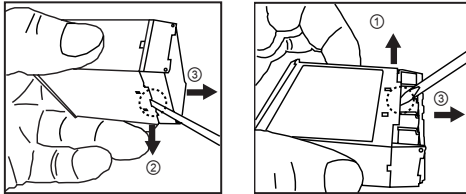
- SENSORS
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# LE8N Series

## ■ Case Detachment and Battery Replacement

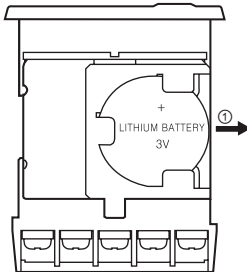
### ◎ Case detachment



※Hold up Lock part toward ①, ② of the product with the tool and pull toward ③ to detach the case.

⚠When using the tools, be careful not to be wounded.

### ◎ Battery replacement



1. Detach the case.
2. Push the battery and detach it toward ①.
3. Insert a new battery with correct alignment of polarity pushing it toward opposite of ①.

※Since lithium battery is embedded in the product, follow instructions below for safety.

- ①Do not charge, short, disassemble, subject it to shock, heat.
- ②Check the polarity.
- ③Use CR2477 battery.
- ④Do not solder on a battery directly.
- ⑤Insulate a battery with tape to dispose .
- ⑥Do not store this unit in the place with the direct sunlight, high temperature and humidity.

※The battery is sold separately.

Please replace a battery by yourself. (sold separately)

※Do not burn up or disassemble the lithium battery.