## DIN W48 $\times$ H24mm, Indication only, LCD Counter

## Features

#### •Upgraded version of LA7N series

- •Small size and count up mode only
- •Internal lithium battery
- •Signal input
  - No-voltage input >> Please use reliable contacts enough to flow 3VDC 5µA of current.
  - Universal voltage input 🖙 "H" : 6-240VDC, 24-240VAC "L" : 0-2.4VDC, 0-2VAC
- •Screw Terminal type (Terminal protection cover)
- ●LCD Display
- ●Built−in Microprocessor
- ●IP66 rated(Front panel only)





## Ordering information



## Specifications

Series		LA8N-BN	LA8N-BF
Digit		8 digits	
Display		LCD Zero Blanking type (Height : 8.7mm)	
Operation method		Count up mode	
Power supply		Internal lithium battery	
Input type		No-voltage input	Universal voltage input
Counting speed		Selectable 1cps / 30cps / 1kcps	20cps
Count input		<ul> <li>Impedance at short-circuit : 10kΩ (ON), residual voltage : Max. 0.5V</li> <li>Impedance at open-circuit : 500kΩ (OFF)</li> </ul>	High: 24-240VAC / 6-240VDC Low: 0-2VAC / 0-2.4VDC
RESET input		No-voltage input	
Min.signal width of RESET		Min. 20ms	
Battery life cycle		Over 7 years(Approx. 20℃)	
External switch		SW1(★1), SW2(★2)	SW1(★1)
Insulation resistance		Min. 100MΩ (at 500VDC mega)	
Dielectric strength		(★3) 2000VAC 60Hz for 1 minute	
Vibra —tion	Mechanical	0.75mm amplitude at frequency of 10 $\sim$ 55Hz in each of X, Y, Z directions for 1 hour	
	Malfunction	0.3mm amplitude at frequency of 10 ~ 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 <sup>2</sup> (Approx. 10G) in X, Y, Z directions for 3 times	
Ambient Temperature		−10 ~ +55 °C (at non-freezing status)	
Storage Temperature		-25 ~ +65℃ (at non-freezing status)	
Ambient humidity		35 ~ 85%RH	
Approval			
Unit weight		Approx. 58g	

( $\star$ 1) SW1 is a switch ENABLE / DISABLE the front RESET.

 $(\star 2)$  SW2 is a switch setting counting speed.

(\*3) No-voltage input: Between all terminals and case, Universal voltage input: Between input terminal and reset input terminal, all terminals and case

# **Compact LCD Counter**

RESET

4

5

Universal voltage input

٦

2

3

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

SIG. INPUT

24-240VAC 50/60Hz

6-240VDC

Г

1

Δ

Δ

### Connections

#### No-voltage input



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

## Dimensions



## Input connections

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

●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.

#### OUniversal voltage input



 Contact input [Counter] ЗV \_560kΩ SIG. INPUT 2kΩ 1.2kΩ RESET å Main 0V

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

circuit

- \*AC type proximity sensor cannot be used as the source of count 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  $5\mu$ A of current.

meter (G) Display unit

(A)

(B)

(C) Temp. controller

(D)

(E) Panel meter

Power controller

Timer

Counter

Sensor controller

(1) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(∟) Pressure sensor

(M) Rotarv encoder

(N) Stepping motor & Driver & Controller

(0) Graphic panel

(P) Production stoppage models & replacement



## Counter operation mode







Selection of counting speed



\*Please supply RESET signal (Front or external reset terminal) after changing counting speed during the operation.\*There is no SW2 in LA8N-BF. (20cps)

## 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.