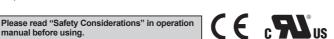
DIN W48×H24mm, Indication Only, LCD Counter

Features

- No additional power due to internal battery
- Signal input method: No-voltage input, voltage input, free voltage input
- Screw terminal type (attaching terminal cover)
- LCD display, backlight model
- IP66 protection structure

manual before using.





Ordering Information

LA 8	N – E	3 N – L		
	Т –	Backlight	No mark	None
			L	Backlight function
		Input tune	N	No-voltage (small signal) input
		Input type	V	Voltage input
			F	Free voltage input
		Power supply	В	Internal lithium battery
	Size		N	DIN W48×H24mm
Dig	git		8	99999999 (8-digit)
Item			LA	LCD Counter

Specifications

Model		LA8N-BN	LA8N-BN-L	LA8N-BV	LA8N-BV-L	LA8N-BF		
Digit 8-digit (count to		8-digit (count up, co	ount down, count up	/down: -9999999 to	99999999 / count u	p: 0 to 99999999)		
Digit size		W3.4×H8.7mm						
Display method		LCD Zero Blanking type (character height size: 8.7mm)						
Operation method		Count up, Count down, Count up/down	Count up	Count up, Count down, Count up/down	Count up	Count up		
Power supply		Built-in battery						
Battery life	cycle	Approx. over 7 years at 20°C						
Backlight p	ower supply	_	24VDC== ±10%		24VDC== ±10%			
Input meth	od	No-voltage input		Voltage input		Free voltage input		
Count input		Residual voltage: Max. 0.5VDC=		[H]: 4.5-30VDC== [L]: 0-2VDC		[H]: 24-240VAC~/6-240VDC== [L]: 0-2VAC/0-2.4VDC		
RESET input				Voltage input		No-voltage input		
Min. input signal width		UP/DOWN, RESET: approx. 20ms	RESET: approx. 20ms	UP/DOWN, RESET: approx. 20ms	RESET: approx. 20ms	RESET: approx. 20ms		
Max. counting speed		1cps / 30cps / 1kcps				20cps		
External setting switch		SW1*1, SW2*2, SW3*3 SW1*1, SW3*3						
Insulation resistance		Over 100MΩ (at 500VDC megger)						
Dielectric strength*4		2,000VAC 60Hz for 1minute						
Vibration Mechanical		0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour						
_ · · · · N	Malfunction	0.3mm 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 N	Malfunction	100m/s² (approx. 10G) in each X, Y, Z direction for 3 times						
Environ-	Ambient temp.	, , ,						
ment /	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH						
Protection structure		IP66 (when using waterproof rubber for front panel, IEC standard)						
Accessory		Mounting bracket, Rubber waterproof ring						
Approval		(€ c 91 0s						
Weight ^{⋇⁵}		Approx. 96g (approx. 50g)						
%1: SW1 is	s the front pane	el RESET key enable	e/disable setting sw	itch.	※2: SW2 is the n	nax. counting speed setting switch.		

^{※1:} SW1 is the front panel RESET key enable/disable setting switch.

Autonics

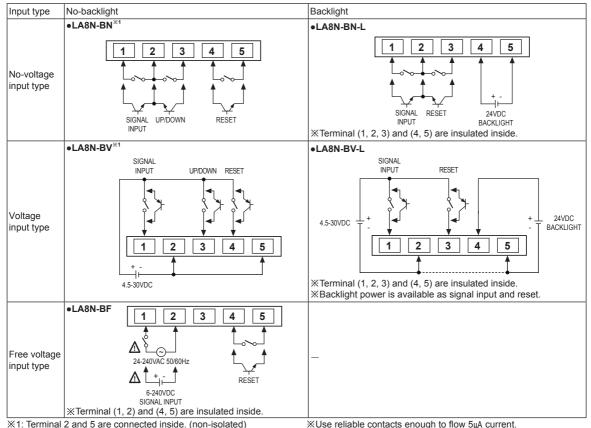
X3: SW3 is the decimal point setting switch.

^{**4:} No-voltage input, voltage input: between terminals and the case / Free voltage input: between the free voltage input terminal and the RESET input terminal, between terminals and the case.

XEnvironment resistance is rated at no freezing or condensation.

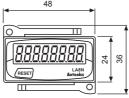
Compact LCD Display Counter

Connections



Dimensions Bracket

Panel cut-out



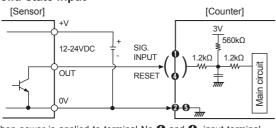
H

22.2 +0.3 45 +0.0

■ Input Connections

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

• Solid-state input



T560kΩ SIG INPUT $1.2k\Omega\,$ 1.2kΩ RESET Main circuit 0V XPlease use reliable contacts enough to flow 3VDC 5μA of current.

[Counter]

circuit can be broken and a malfunction can occur.

(NPN output, PNP output, PNP open collector output type sensor cannot be used.)

X2 and **5** are connected inside.

※For backlight function model, the input terminals are no. ●, ● and the GND terminal is no. ●

(A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(F) Rotary Encoder

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

(I) SSRs / Power Controllers

(unit: mm)

(N) Display Units

(P) Switching Mode Power Supplies

(Q) Stepper Motors

(R) Graphic/ Logic Panels

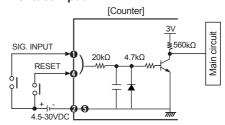
J-5 Autonics

LA8N Series

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

Solid-state input

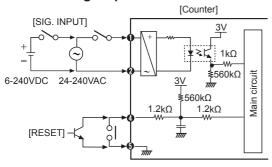
Contact input



 $\ensuremath{\mathbb{X}}$ Please use reliable contacts enough to flow 3VDC 5 μ A of current.

※For backlight function model, the input terminals are no. ●, ● and the GND terminal is no. ●.

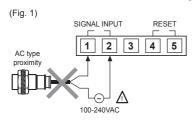
O Free voltage input



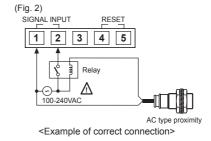
- **AC type proximity sensor cannot be used as the source of count input signals.
- ※Input terminal (♠, ♠) and reset terminal (♠, ♠) are insulated inside.
- XIt is not possible to reset with AC power or DC power.
- When relay contact is used as the source of RESET signal, please use reliable contacts enough to flow 3VDC 5µA of current.

O 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.



<Example of wrong connection>

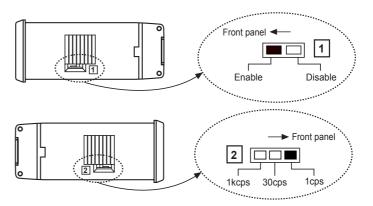


Setting Switch

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

SW2 (2 switch) SW2 is a switch for setting max. counting speed.

※Factory default: 1cps (Free voltage input type: 20cps is fixed)

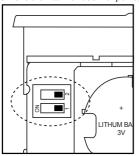


J-6 Autonics

Compact LCD Display Counter

© SW3

SW3 is a switch for decimal point position. (X factory default: no decimal point)



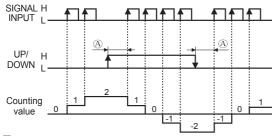
SW3	Decimal point
- T	Not use decimal point
0 T	0.0
0	0.00
0 1 2	0.000

XChange SW3 setting after removing the case.

XSupply RESET signal (front panel or terminal RESET) after setting SW2, SW3 during operation.

Counter Operation Mode

• LA8N-BN/LA8N-BV model

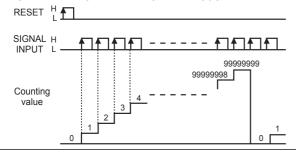


SIGNAL INPUT: Counting input,
UP/DOWN: Counting instruction input
UP/DOWN as "L" is count up (UP)
UP/DOWN as "H" is count down (DOWN)
The meaning of "H" and "L"

	Voltage input	No-voltage input	Free voltage input
Н	4.5-30VDC	Short	6-240VAC, 24-240VDC
L	0-2VDC	Open	0-2VAC, 0-2.4VDC

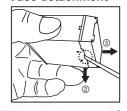
*(A) should be over 20ms of min. signal width. If it is below 20ms, it may cause counting error.

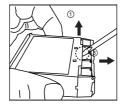
• LA8N-BN-L/LA8N-BV-L/LA8N-BF model



■ 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.

Mhen using the tools, be careful not to be wounded.

Output

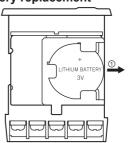
Description:

Methods

Output

Description

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.
- XThe battery is sold separately.
- Please replace a battery by yourself. (sold separately)
- XDo not burn up or disassemble the lithium battery.

(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

imers

Panel Meters

(M) Tacho / Speed / Pulse Meters

> l) isplay nits

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

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