DIN W48×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 5㎂ 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
- Protection structure IP66

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

▣Ordering information

L A 8 N - B F

F	Universal voltage input
N	No-voltage(Small signal) input
B	Internal lithium battery
N	DIN W48×H24mm
8	99999999(Digit)
A	Counter
L	LCD Display

▣Specifications

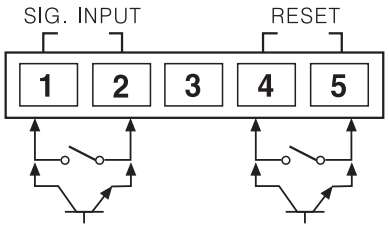
※It is available from May, 2007.

Series		LA8N-BN	LA8N-BF
Digit		8digits	
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		Residual voltage at short-circuit : Max. 0.5V	Start : 24-240VAC / 6-24VDC Hold : 0-2VAC / 0-2.4VDC
Reset input		No-voltage input	
Min.signal width of Reset		Min. 20ms	
Battery life cycle		Over 7 years(at 20℃)	
External switch		SW1(★1), SW2(★2)	SW1(★1)
Insulation resistance		Min. 100MΩ(at 500VDC)	
Dielectric strength		(★3) 2000VAC 60Hz for 1 minute	
Vibration	Mechanical	0.75mm amplitude at frequency of 10 ~ 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/s² (Approx. 10G) in X, Y, Z directions for 3 times	
Ambient Temperature		-10 ~ +55℃(at non-freezing status)	
Storage Temperature		-25 ~ +65℃(at non-freezing status)	
Ambient humidity		35 ~ 85%RH	
Approval		CE cULus	
Unit weight		Approx. 58g	

(★1) SW1 is front reset switch to Lock.
(★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

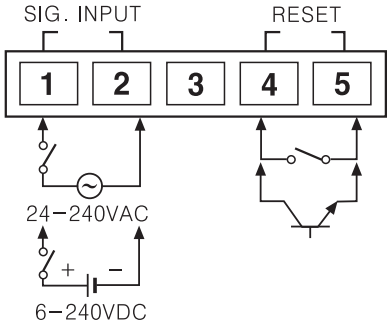
▣Connections

●No-voltage input



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

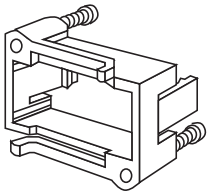
●Universal voltage input

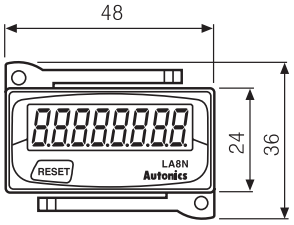


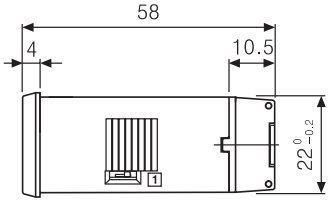
※Terminal 1, 2 and 4, 5 are isolated.

▣Dimensions

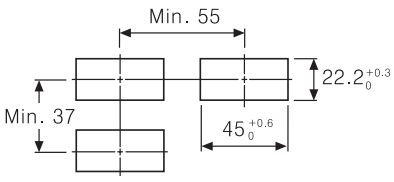
●Bracket







●Panel cut-out

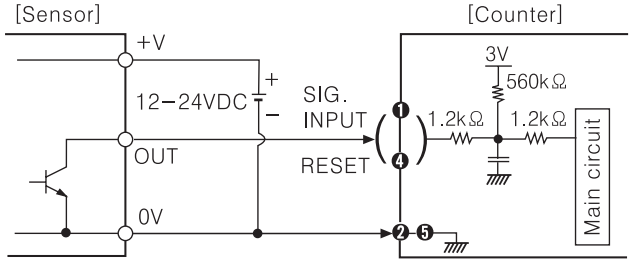


(Unit:mm)

▣Input connections

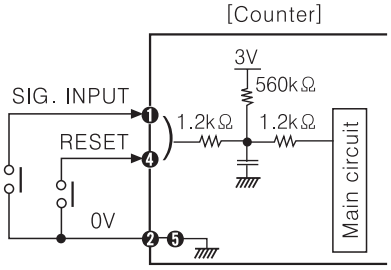
◎No-voltage input (Standard sensor: NPN open type sensor)

●Solid-state input



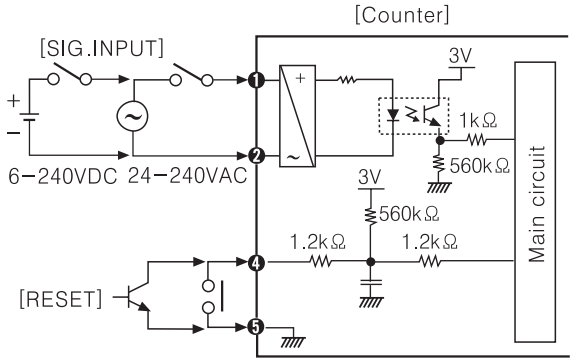
※When applying power to terminal No ❶ and ❹, input terminal circuit can be broken and a malfunction can occur.
(NPN output, PNP output, PNP open collector output type sensor cannot be used.)
※❷ and ❺ are connected at inside.

●Contact input



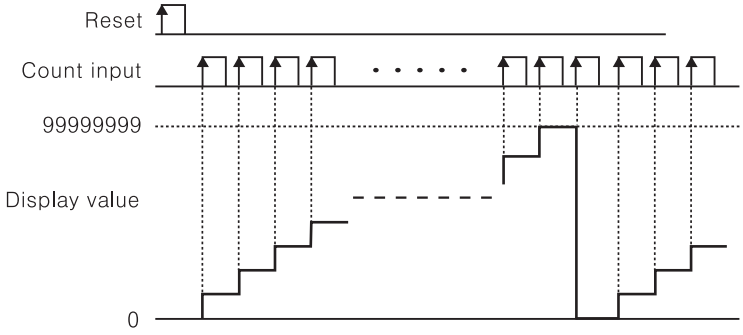
※Please use reliable contacts enough to folw 3VDC 5㎂ of current.

◎Universal voltage input

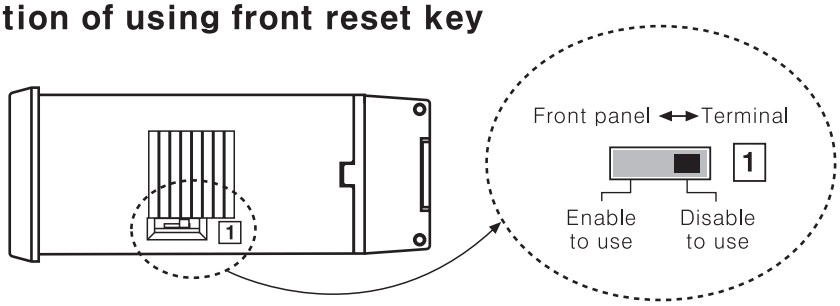


※AC type proximity sensor cannot be used as the source of count input signals.
※Input terminal ❶, ❷ and Reset terminal ❹, ❺ are insulated inside.
※It is not possible to reset with AC power or DC power.
※When relay contact is used as the source of Reset signal, please use reliable contacts enough to flow 3VDC 5㎂ of current.

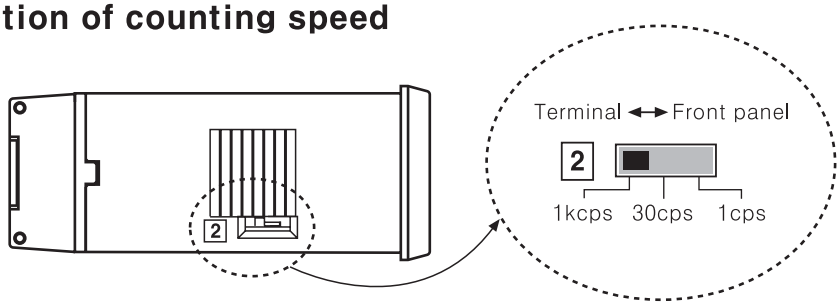
▣Counter operation mode



▣Selection of using front reset key



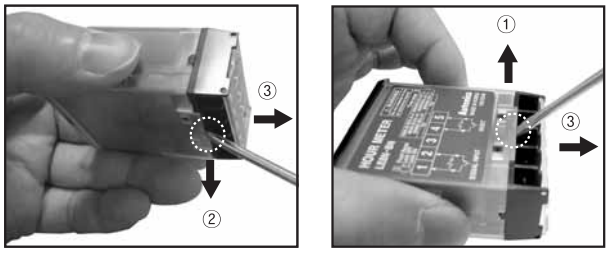
▣Selection of counting speed



※Please supply Reset signal(Front ro external reset terminal) after changing counting speed during the operation.

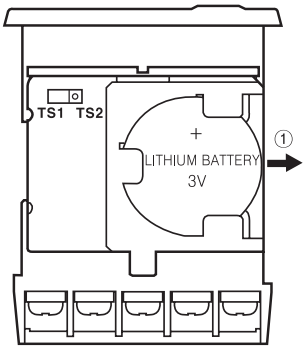
▣Case detachment and battery replacement

●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 to use with tools, it may cause injury.

●Battery replacement



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