

LCD Digital Counters (Indicator)



LA8N Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

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

Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

LA8N - B ① - ②

① Input method

N: No-voltage input
V: Voltage input
F: Free voltage input

② Backlight

No mark: None
L: Backlight function

Product Components

- Product (+ bracket)
- Instruction manual

Specifications

Model	LA8N-BN	LA8N-BN-L	LA8N-BV	LA8N-BV-L	LA8N-BF
Display digits	8-digit				
Display method	LCD Zero Blanking (character size: W 3.4 × H 8.7 mm)				
Max. counting speed	1 cps, 30 cps, 1 kcps				20 cps
Operation method	Count up, count down, count up/down	Count up	Count up, count down, count up/down	Count up	Count up
Counting range	-9999999 to 99999999	0 to 99999999	-9999999 to 99999999	0 to 99999999	0 to 99999999
Input method	No-voltage input		Voltage input		Free voltage input
Counting input (H)	Short Residual voltage: ≤ 0.5 VDC≐ Max. impedance: ≤ 10 kΩ		4.5 - 30 VDC≐		24 - 240 VAC~ / 6 - 240 VDC≐
Counting input (L)	Open Min. impedance: ≥ 750 kΩ		0 - 2 VDC≐		0 - 2 VAC~ / 0 - 2.4 VDC≐
RESET input	No-voltage input		Voltage input		No-voltage input
Min. signal width (UP, DOWN)	≈ 20 ms	-	≈ 20 ms	-	-
Min. signal width (RESET)	≈ 20 ms				
Unit weight (packaged)	≈ 50 g (≈ 96 g)				
Approval	CE				
Power supply	Built-in battery (CR2477)				
Battery life cycle	≥ 7 years (at ≈ 20 °C)				
Backlight power	24 VDC≐ ± 10 %				
Insulation resistance	≥ 100 MΩ (500 VDC≐ megger)				
Dielectric strength (91)	2,000 VAC~ 60 Hz for 1 min				
Vibration	0.75 mm double amplitude at frequency of 10 to 55Hz (for 1 minute) in each X, Y, Z direction for 1 hour				
Vibration (malfunction)	0.3 mm double amplitude at frequency of 10 to 55Hz (for 1 minute) in each X, Y, Z direction for 10 minute				
Shock	300 m/s ² (≈ 30 G) in each X, Y, Z direction for 3 times				
Shock (malfunction)	100 m/s ² (≈ 10 G) in each X, Y, Z direction for 3 times				
Ambient temp.	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)				
Ambient humi.	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)				
Protection rating	IP66 (front part, when using the rubber waterproof ring, IEC standard)				

01) No-voltage input, voltage input: between all terminals and case
Free voltage input: between free voltage input terminal and RESET input terminal, between all terminals and case

Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.

