

LCD Digital Counters (Indicator)

LA8N Series



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

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	-99999999 to 99999999	0 to 99999999	-99999999 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  ENEC				
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 ⁰¹⁾	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



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