


Counter LA8



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

LA	8	N	-	B	N	-	L
Item	Digit	Size	Power supply	Input type	Backlight	No mark	None
						L	Backlight function
						N	No-voltage (small signal) input
						V	Voltage input
						F	Free voltage input
						B	Internal lithium battery
						N	DIN W48×H24mm
						8	99999999 (8-digit)
						LA	LCD Counter

Model	LA8N-BN		LA8N-BN-L	LA8N-BV	LA8N-BV-L	LA8N-BF
Digit	8-digit (count up, count down, count up/down: -9999999 to 99999999 / count up: 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 power supply	—	24VDC±10%	—	24VDC±10%	—	
Input method	No-voltage input			Voltage input		Free voltage input
Count input	Residual voltage: Max. 0.5VDC± Short-circuit impedance: Max. 10kΩ Open-circuit impedance: Min. 750kΩ			[H]: 4.5-30VDC± [L]: 0-2VDC		[H]: 24-240VAC~ / 6-240VDC± [L]: 0-2VAC/0-2.4VDC
RESET input	No-voltage 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				
	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/s ² (approx. 30G) in each X, Y, Z direction for 3 times				
	Malfunction	100m/s ² (approx. 10G) in each X, Y, Z direction for 3 times				
Environ- ment	Ambient temp.	-10 to 55°C, storage: -25 to 65°C				
	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	CE 					
Weight※5	Approx. 96g (approx. 50g)					

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

※2: SW2 is the max. counting speed setting switch.

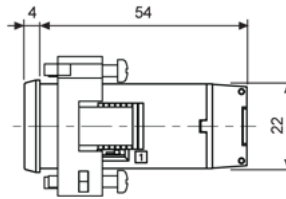
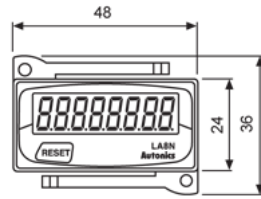
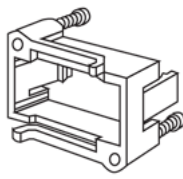
※3: SW3 is the decimal point setting switch.

※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.

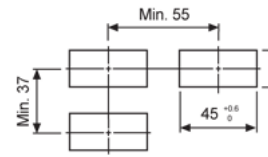
※5: The weight includes packaging. The weight in parenthesis is for unit only.

※Environment resistance is rated at no freezing or condensation.

• Bracket



• Panel cut-out



Input type	No-backlight	Backlight
No-voltage input type	<p>•LA8N-BN^{※1}</p>	<p>•LA8N-BN-L</p> <p>※Terminal (1, 2, 3) and (4, 5) are insulated inside.</p>
Voltage input type	<p>•LA8N-BV^{※1}</p>	<p>•LA8N-BV-L</p> <p>※Terminal (1, 2, 3) and (4, 5) are insulated inside. ※Backlight power is available as signal input and reset.</p>
Free voltage input type	<p>•LA8N-BF</p> <p>※Terminal (1, 2) and (4, 5) are insulated inside.</p>	

※1: Terminal 2 and 5 are connected inside. (non-isolated)

※Use reliable contacts enough to flow 5μA current.

