

Timers



LE8N

Features

- * No additional power due to internal battery
- * Signal input method: No-voltage input, voltage input, free voltage input
- * Screw terminal type (attaching
- * IP66 protection structure

LE	8	N	-	B	N	-	L		
								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)
								LE	Compact LCD Timer

Model	LE8N-BN	LE8N-BN-L	LE8N-BV	LE8N-BV-L	LE8N-BF
Digit	8-digit (0 to 99999999)				
Digit size	W3.4×H8.7mm				
Display method	LCD Zero Blanking type (character height size: 8.7mm)				
Operation method	Count up				
Power supply	Built-in battery				
Battery life cycle	Approx. over 10 years at 20°C				
Backlight power supply	—	24VDC±10%	—	24VDC±10%	—
Input method	No-voltage input		Voltage input		Free voltage input
START 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~1/6-240VDC± [L]: 0-2VAC/0-2.4VDC
RESET input	No-voltage input		Voltage input		No-voltage input
Min. input signal width	SIGNAL, RESET input: Approx. 20ms				
Time specification (TS1)	99995959 (h.m.s), 99995959 (h.m), 99995959 (h.m)				
Time specification (TS2)	99992359 (d.h.m), 9999d239 (d.h), 99999999 (s)				
Time specification (TS3)	9999h599 (h.m), 99999h59 (h.m), 9999999h (h)				
Time error, Temperature error	±0.01%				
External set switch	SW1※1, SW2※2, 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 c 				
Weight※5	Approx. 96g (approx. 50g)				

※1: SW1 is the front panel RESET key enable/disable set switch. ※Environment resistance is rated at no freezing or condensation.

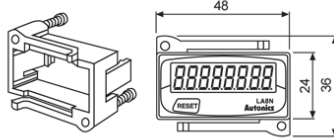
※2: SW2 is the time range set switch.

※3: SW3 is available to select time specification TS1, TS2, or TS3.

※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

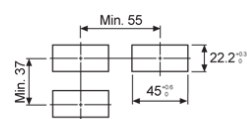
※5: The weight includes packaging. The weight in parenthesis is for unit only.

• Bracket



• Panel cut-out

(unit: mm)



Input type	No-backlight	Backlight function
No-voltage input type	•LE8N-BN^{※1}	•LE8N-BN-L^{※2}
Voltage input type	•LE8N-BV^{※1}	•LE8N-BV-L^{※2} ※Backlight power is available as signal input and reset.
Free voltage input type	•LE8N-BF ※Terminal (1, 2) and (4, 5) are insulated inside.	—

※1: Terminal 2 and 5 are connected inside. (non-isolated)
 ※Use reliable contacts enough to flow 5μA current.

※2: Terminal (1, 2, 3) and (4, 5) are insulated inside.

