















Product Overview

Series	LA8N (LCD type)				
Digit	8digit (Count up, down: -9999999 to 99999999 / Count up mode: 0 to 99999999)				
Model	LA8N-BN	LA8N-BN-L	LA8N-BV	LA8N-BV-L	LA8N-BF
Appearances & Dimensions	 <p>[W48×H24×L54mm]</p>				
Display method	LCD Zero Blanking type (Character height size: 8.7mm)				
Operation method	Count up, down mode	Count up mode	Count up, down mode	Count up mode	Count up mode
Power supply	Built-in battery				
Backlight power supply	—	24VDC±10%	—	24VDC±10%	—
Input method	No-voltage input		Voltage input		Free voltage input
Max. counting speed	1cps / 30cps / 1kcps				20cps
Count input	Residual voltage: Max. 0.5VDC Short-circuit impedance: Max. 10kΩ Open-circuit impedance: Min. 750kΩ		"H" level voltage: 4.5-30VDC "L" level voltage: 0-2VDC		"H" level voltage: 24-240VAC /6-240VDC "L" level voltage: 0-2VAC/0-2.4VDC
RESET input	No-voltage input		Voltage input		No-voltage input
Min. signal width	UP/DOWN, RESET input: Min. 20ms	RESET input: Min. 20ms	UP/DOWN, RESET input: Min. 20ms	RESET input: Min. 20ms	RESET input: Min. 20ms
Battery life cycle	Approx. over 7 years at 20°C				
External set switch	SW1, SW2, SW3				SW1, SW3
Insulation resistance	Min. 100MΩ (at 500VDC megger)				
Dielectric strength	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			
	Malfuction	0.3mm amplitude at frequency of 10 to 55Hz (for 1 min.) in each X, Y, Z direction for 10 minutes			
Shock	Mechanical	300m/s ² (approx. 30G) 3 times at X, Y, Z direction			
	Malfuction	100m/s ² (approx. 10G) 3 times at X, Y, Z direction			
Reference	J-4 to 7				

Series	CTS		CTY	CTM
Digit	4digit		6digit	6digit
Model	Single preset type	CT4S-1P□□	CT6S-1P□□	CT6Y-1P□□
	Dual preset type	CT4S-2P□□	CT6S-2P□□	CT6Y-2P□□
	Indicator	-	CT6S-I□□	CT6Y-I□□
Appearances & Dimensions	 <p>[W48×H48×L90mm]</p>		 <p>[W72×H36×L77mm]</p>	 <p>[W72×H72×L85mm]</p>
Operation type	Count up, Count down, Count Up/Down			
Power Supply	AC Power	100-240VAC 50/60Hz		
	AC/DC Power	24VAC 50/60Hz, 24-48VDC		
Allowable voltage range	90 to 110% of rated voltage			
Max. counting speed	Selectable 1cps / 30cps / 1kcps / 5kcps / 10kcps			
Min. input signal width	Counter	Reset signal: Selectable 1ms or 20ms		
	Timer	INA, INB, RESET: Selectable 1ms or 20ms		INA, RESET, INHIBIT, BATCH RESET: Selectable 1ms or 20ms
Input	Selectable voltage input or No-voltage input [Voltage input] Input impedance is 5.4kΩ, 'H' level: 5-30VDC, 'L' level: 0-2VDC [No-voltage input] Short-circuit impedance: Max. 1kΩ, Residual voltage: Max. 2VDC			
One-shot output	Selectable 0.01s to 99.99s			
Control output	Without com.	Contact output	Dual preset: SPST (1a) 2EA Single preset: SPDT (1c) 1EA	Dual preset: SPST (1a) 1EA, SPDT (1c) 1EA Single preset: SPDT (1c) 1EA
		Solid state output	Dual preset: 1NPN open collector Single preset: 1NPN open collector	Dual preset: 3NPN open collector Single preset: 2NPN open collector
	Com.	Contact output	Dual preset: SPST (1a) 2EA Single preset: SPDT (1c) 1EA	Dual preset: SPST (1a), SPDT (1c) Single preset: SPDT (1c)
		Solid state output	—	Dual preset: - Single preset: 1NPN open collector
	Capacity	Contact output	250VAC 5A resistive load	250VAC 3A resistive load
	Solid state output	30VDC Max. 100mA Max.	250VAC 5A resistive load	
External sensor power	12VDC ±10%, 100mA Max.			
Reference	J-8 to 35			

Product Overview

Series	FXY		FXS		FX		FXH		FXL	
Digit	4digit	6digit	4digit	5digit	4digit	6digit	4digit	6digit	4digit	6digit
Model	Single preset type	—	—	FX4S	—	FX4	FX6	FX4H	—	—
	Dual preset type	—	—	—	—	FX4-2P	FX6-2P	FX4H-2P	—	FX4L-2P FX6L-2P
	Indicator	FX4Y-I	FX6Y-I	—	FX5S-I	FX4-I	FX6-I	FX4H-I	—	FX4L-I FX6L-I
Appearances & Dimensions	 [W72×H36×L93mm]		 [W48×H48×L91mm]		 [W72×H72×L112mm]		 [W48×H96×L100mm]		 [W144×H72×L112mm]	
	Operation type: Count up, Count down, Count Up/Down									
Power supply	AC Power	100-240VAC 50/60Hz								
	AC/DC Power	12-24VAC 50/60Hz, 12-24VDC								
Allowable voltage range	90 to 110% of power supply									
Max. counting speed	Selectable 1cps, 30cps, 2kcps, 5kcps by internal DIP switch									
Min. signal range	Min. 20ms (Input INHIBIT, RESET)									
Input type	CP1, CP2 input	[No-voltage input] Impedance at short-circuit: Max. 470Ω, Residual voltage at short-circuit: Max. 1V, Impedance at open-circuit: Min. 100kΩ			[Voltage input] - Input impedance: 10kΩ, "H" level voltage: 5-30VDC, "L" level voltage: 0-2VDC [No-voltage input] - Impedance at short-circuit: Max. 5.4kΩ, Residual voltage at short-circuit: Max. 2V, Impedance at open-circuit: Min. 100kΩ					
	RESET input									
Control output	Contact	Type	—		SPDT (1c) —		Single preset type: SPDT (1c) 1EA, Dual preset type: SPDT (1c) 2EA			
		Capacity	—		250VAC 3A resistive load —		250VAC 3A resistive load			
	Solid-state	Type	—		1 NPN open collector —		Single preset type: 1 NPN open collector, Dual preset type: 2 NPN open collectors			
		Capacity	—		Max. 30VDC 100mA —		Max. 30VDC 100mA			
External power	12VDC ±10%, 50mA Max.									
Reference	J-36 to 41			J-42 to 49			J-50 to 58			

Series	FS		F		L		FM		LM		
Digit	4digit	5digit	8digit	8digit	8digit	6digit	6digit	4digit	6digit		
Model	Single preset type	FS4A	—	F8A	L8A	F4AM	F6AM	—	—		
	Dual preset type	—	—	—	—	F4AM-2P	F6AM-2P	L4AM-2P	L6AM-2P		
	Indicator	—	FS5B	F8B	L8B	F4BM	F6BM	L4BM	L6BM		
Appearances & Dimensions	※ 8Pin plug type		 [W48×H48×L85mm]	 [W72×H72×L112mm]	 [W144×H72×L112mm]	 [W72×H72×L112mm]	 [W144×H72×L112mm]				
	Operation type: Count up, Count down, Count up, Count down, Count Up/Down										
Power supply	AC Power	100-240VAC 50/60Hz									
	AC/DC Power	12-24VAC 50/60Hz, 12-24VDC									
Allowable voltage range	90 to 110% of power supply										
Max. counting speed	Selectable 1cps, 30cps, 2kcps, 5kcps by internal DIP switch										
Min. signal range	RESET input: Min. 20ms										
Input type	CP1, CP2 input	[No-voltage input] Impedance at short-circuit: Max. 470Ω, Residual voltage at short-circuit: Max. 1V, Impedance at open-circuit: Min. 100kΩ			[Voltage input] - Input impedance: 5.4kΩ, "H" level voltage: 5-30VDC, "L" level voltage: 0-2VDC [No-voltage input] - Impedance at short-circuit: Max. 1kΩ, Residual voltage at short-circuit: Max. 2VDC, Impedance at open-circuit: Min. 100kΩ						
	RESET input										
Control output	Contact	Type	SPST (1a) —	SPDT (1c)			Single preset type: SPDT (1c) 1EA Dual preset type: SPDT (1c) 2EA				
		Capacity	250VAC 3A resistive load —	250VAC 3A resistive load							
	Solid-state	Type	—			1 NPN open collector			Single preset type: 1 NPN open collector Dual preset type: 2 NPN open collectors		
		Capacity	—			30VDC 100mA Max.					
External sensor power	12VDC ±10%, 50mA Max.										
Reference	J-59 to 63			J-64 to 70			J-71 to 79				

- (A) Photoelectric Sensors
- (B) Fiber Optic Sensors
- (C) Door/Area Sensors
- (D) Proximity Sensors
- (E) Pressure Sensors
- (F) Rotary Encoders
- (G) Connectors/ Sockets
- (H) Temperature Controllers
- (I) SSRs / Power Controllers
- (J) Counters
- (K) Timers
- (L) Panel Meters
- (M) Tacho / Speed / Pulse Meters
- (N) Display Units
- (O) Sensor Controllers
- (P) Switching Mode Power Supplies
- (Q) Stepper Motors & Drivers & Controllers
- (R) Graphic/ Logic Panels
- (S) Field Network Devices
- (T) Software