














Product Overview

Series	LA8N (LCD type)				
Digit	8-digit (count up, count down, count up/down: -9999999 to 99999999 / count up: 0 to 99999999)				
Model	LA8N-BN	LA8N-BN-L	LA8N-BV	LA8N-BV-L	LA8N-BF
Appearances & Dimensions	 <p>CE c RU us</p> <p>[W48×H24×L54mm]</p>				
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				
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]: 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
Battery life cycle	Approx. over 7 years at 20°C				
External setting switch	SW1, SW2, SW3				SW1, SW3
Insulation resistance	Over 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			
	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			
Reference	J-4 to 7				

Series	CTS		CTY		CTM		
Digit	4-digit		6-digit		6-digit		
Model	1-stage preset	CT4S-1P□□	CT6S-1P□□	CT6Y-1P□□	CT6M-1P□□		
	2-stage preset	CT4S-2P□□	CT6S-2P□□	CT6Y-2P□□	CT6M-2P□□		
	Indicator	—	CT6S-I□□	CT6Y-I□□	CT6M-I□□		
Appearances & Dimensions	 <p>CE c RU us</p> <p>[W48×H48×L90mm]</p>		 <p>CE c RU us</p> <p>[W72×H36×L77mm]</p>		 <p>CE c RU us</p> <p>[W72×H72×L85mm]</p>		
Operation method	Count up, Count down, Count Up/Down						
Power Supply	AC voltage	100-240VAC 50/60Hz					
	AC/DC voltage	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: Selectable 1ms/20ms					
	Timer	INA, INH, RESET: Selectable 1ms/20ms				INA, RESET, INHIBIT, BATCH RESET: Selectable 1ms/20ms	
Input method	Selectable voltage input or No-voltage input [Voltage input] Input impedance is 5.4kΩ, [H]: 5-30VDC, [L]: 0-2VDC [No-voltage input] Short-circuit impedance: Max. 1kΩ, Residual voltage: Max. 2VDC						
One-shot output time	0.01s to 99.99s setting						
Control output	Contact output	Type	1-stage	Standard	Standard	Standard	
			2-stage	SPDT(1c): 1	SPDT(1c): 1	SPDT(1c): 1	
		Capacity	250VAC 5A resistive load	250VAC 3A resistive load	250VAC 5A resistive load		
	Solid state output (NPN open collector)	Type	1-stage	1	1	2	
			2-stage	—	—	3	
Capacity	Max. 30VDC, 100mA						
External power supply	Max. 12VDC ±10%, 100mA						
Reference	J-8 to 35						

Product Overview

Series	FX Y		FX S		FX		FX H		FX L	
Digit	4-digit	6-digit	4-digit	5-digit	4-digit	6-digit	4-digit	4-digit	6-digit	
Model	1-stage preset	—	—	—	FX4S	—	—	—	—	
	2-stage preset	—	—	—	—	—	—	—	—	
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×L112.3mm]		[W48×H96×L100mm]		[W144×H72×L112mm]	
Operation method	Count up, Count down, Count Up/Down									
Power supply	AC Voltage 100-240VAC 50/60Hz									
AC/DC Voltage	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. input signal width	INHIBIT, RESET: Approx. 20ms									
Input	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]: 5-30VDC, [L]: 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	—		SPDT (1c)	—				
		Capacity	—		250VAC 3A resistive load	—				
	Solid state	Type	—		1 NPN open collector	—				
		Capacity	—		Max. 30VDC 100mA	—				
External power	Max. 12VDC ±10% 50mA									
Reference	J-36 to 41		J-42 to 49			J-50 to 58				

Series	FS		F		L		FM		LM		
Digit	4-digit	5-digit	8-digit	8-digit	4-digit	6-digit	4-digit	6-digit			
Model	1-stage preset	FS4A	—	F8A	L8A	F4AM	F6AM	—	—		
	2-stage preset	—	—	—	—	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 method	Count up, Count down		Count up, Count down, Count Up/Down								
Power supply	AC Voltage 100-240VAC 50/60Hz										
AC/DC Voltage	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. input signal width	RESET: Approx. 20ms										
Input	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]: 5-30VDC, [L]: 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)	—				
		Capacity	250VAC 3A resistive load	—		250VAC 3A resistive load	—				
	Solid state	Type	—		1 NPN open collector	—					
		Capacity	—		Max. 30VDC, 100mA	—					
External sensor power	Max. 12VDC ±10% 50mA										
Reference	J-59 to 63		J-64 to 70			J-71 to 79					