Autonics

L-7N SERIES

M



Thank you very much for selecting Autonics products. For your safety, please read the following before using.

Caution for your safety

*Please keep these instructions and review them before using this unit.

*Please observe the cautions that follow;

↑ Warning Serious injury may result if instructions are not followed

▲ Caution Product may be damaged, or injury may result if instructions are not followed.

*The following is an explanation of the symbols used in the operation manual ▲ caution:Injury or danger may occur under special conditions

/N Warning

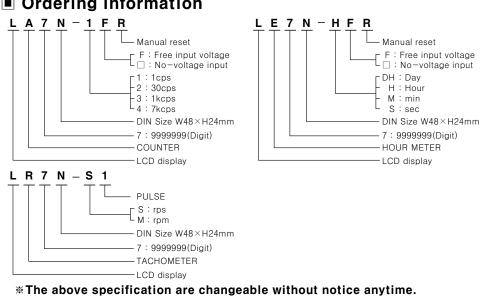
- 1. In case of using this unit with machineries(Nuclear power control, medical equipment vehicle, train, airplane, combustion apparatus, entertainment or safety device etc), it requires installing fail-safe device, or contact us for information required. It may result in serious damage, fire or human injury.
- 2. Do not disassemble and modify this unit, when it requires. If needs, please contact us. t may give an electric shock and cause a fire.
- 3. Lithium battery is used for memory retention in this product, therefore do not disassemble or burn up.

It may cause a fire.

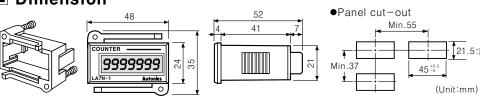
⚠ Caution

- 1. This unit shall not be used outdoors.
- It might shorten the life cycle of the product or give an electric shock
- 2. Please observe specification rating.
- t might shorten the life cycle of the product and cause a fire.
- 3. In cleaning the unit, do not use water or an organic solvents. It might cause an electric shock or fire that will result in damage to the product.
- 4. Do not use this unit at place where there are flammable or explosive gas, humidity, direct ray of the sun, radiant heat, vibration, impact etc. It may cause explosion
- 5. Do not inflow dust or wire dregs into inside of this unit.
- It may cause a fire or mechanical trouble

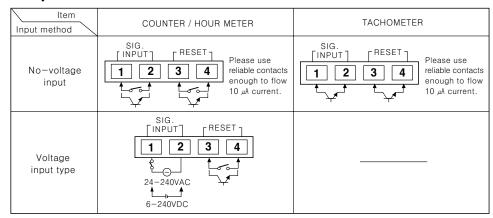
Ordering information



Dimension



Input connection



Specification

●LA7N Series(COUNTER)

Н	Model		LA7N-1 LA7N-2 LA7N-3 LA7N-4 LA7N-1R LA7N-2R LA7N-3R LA7N-4R LA7N-F LA7N-FR									
П			No-oltage input								Free-voltage input	
Н	Digit		7 Digit									
П	Operation method		Up mode only									
Power supply 3VDC(Battery built-in)												
ıl	Display			LCD Zero Blanking method(Display Size: H7mm × W3mm)								
П	Countin	g speed	1cps	30cps	1kcps	7kcps	1cps	30cps	1kcps	7kcps	20	cps
'	Manual (Front		Non Have						Non	Have		
- 1	Reset External (Terminal)		Have									
	INHIBIT		• No-voltage input Impedance at short-circuit : Max. 10kΩ(ON) Impedance at open : Min. 500kΩ(OFF)							• INHIBIT input: Free-voltage input "H" level: AC type 24-240VAC, DC type 6-240VDC "L" level: AC type 0-1.5VAC, DC type 0-2VDCI		
П		Reset input										
П		on resistance	Min. 100M \(\Omega\) (at 500VDC)									
'		ic strength	1000VAC 50/60Hz for 1 minute									
-1	Vibra-	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 1 hour									
-1	tion	Malfunction	0.3mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 10 minutes						ites			
-1	Shock	Mechanical	300m/s² (Approx. 30G) 3 times at X, Y, Z direction									
- 1		Malfunction	100m/s ² (Approx. 10G) 3 times at X, Y, Z direction									
- 1	Ambient temperature		-10 to 55℃(at non-freezing status)									
- 1	Storage temperature		-25 to 65°C (at non-freezing status)									
- 1	Ambient humidity		35 to 85%RH									
- 1	Battery life cycle		Approx. 7 years at 25°C									
- 1	Weight		Approx. 55g									
-	Approva	al	(€						_			
Ц	AL EZN	I Sarias (HC	IID MET	ED)								

LE7N Series(HOUR METER)

Model		LE7N-H	LE7N-S	LE7N-M	LE7N-HR	LE7N-HF	LE7N-SF	LE7N-MF	LE7N-HFR		
			No-volta	age input		Free-voltage input					
Digit		7 Digit									
Operation	on method	Up mode only									
Power s	supply	3VDC(Battery built-in)									
Display		LCD Zero Blanking method(Display Size: H7mm × W3mm)									
Time ra	nge	0.0h to 999999.9h	0.0h to 99h59m 59.9s	0.0h to 9999h 59.9m	0.0h to 999999.9h	0.0h to 999999.9h	0.0h to 99h59m 59.9s	0.0h to 9999h 59.9m	0.0h to 9999h 59.9m		
Reset N	Manual(Front)		Non		Have	Non Have					
External (Terminal)		Have									
INHIBIT input		• No-voltage input Impedance at short-circuit: Max. 10kΩ(ON)									
Reset input		Impedance at open : Min. 500kΩ (OFF)									
Insulation resistance		Min. 100MΩ (at 500VDC)									
Dielectric strength		1000VAC 50/60Hz for 1 minute									
Vibra- Mechanical		0.75mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 1 hour									
tion Malfunction 0.3mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions fo					ons for 10 m	inutes					
Shock	Mechanical	300m/s ² (Approx. 30G) 3 times at X, Y, Z direction									
SHOCK	Malfunction	100m/s ² (Approx. 10G) 3 times at X, Y, Z direction									
Ambient temperature		-10 to 55℃(at non-freezing status)									
Storage temperature		-25 to 65℃ (at non-freezing status)									
Ambient humidity		35 to 85%RH									
Battery life cycle		Approx. 7 years at 25℃									
Weight		Approx. 55g									
Approval		(E					-				

●LR7N Series(TACHOMETER)

Model		LR7N-S1 LR7N-M60					
		No voltage input	Free-voltage input				
Digit		7 Digit					
Operation method		Up mode only					
Power supply		3VDC(Battery built-in)					
Display		LCD Zero Blanking method(Display Size: H7mm × W3mm)					
Counting speed		700kcps					
Max. revolution display		700rps	700rpm				
Encode	r specification	1 Pulse / 1 Revolution	60 Pulse / 1 Revolution				
INHIBIT	input	• No-voltage input Impedance at short-circuit∶ Max. 10kΩ(ON) Impedance at open: Min. 500kΩ(OFF)					
Insulation resistance		Min. 100MΩ (at 500VDC)					
Dielectric strength		1000VAC 50/60Hz for 1 minute					
Vibra-	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 1 hour					
tion	Malfunction	0.3mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 10 minutes					
Shock	Mechanical	300m/s² (Approx. 30G) 3 times at X, Y, Z direction					
SHOCK	Malfunction	100m/s² (Approx. 10G) 3	times at X, Y, Z direction				
Malfunction Ambient temperature		-10 to 55℃(at non-freezing status)					
Storage	temperature	-25 to 65℃(at non-freezing status)					
Ambient humidity		35 to 85%RH					
Battery life cycle		Approx. 7 years at 25℃					
Weight		Approx. 55g					
Approval		(E					

Input signal

- In case of applying contact input as counter input, please use the counter which has
- When any one signal width of ON & OFF is less than Max. signal width, the counter may not be working

Ex)If Max. counting speed is 1kcps, Min. signal width of input signal os as follow:

Caution for using

- 1. Input signal line
 - ①Shorten the cable distance between the sensor and this product.
 - 2 Please shielded wire for input signal needed to be long.
- (3) Please wire input signal line separated from power line.
- 2. When test dielectric voltage and insulation resistance of the control panel with this unit installed.
- ①Please isolate this unit from the circuit of control panel.
- @Please make all terminals of this unit short-circuited.
- 3. Do not use this unit at below places.
 - 1) Place where there are severe vibration or impact.
- 2) Place where strong alkalis or acids are used.
- 3 Place where there are direct ray of the sun
- 4 Place where strong magnetic field or electric noise are generated.

*It may cause malfunction if above instructions are not followed.

Main products

- COUNTER
- TIMER
- TEMPERATURE CONTROLLER
- PANEL METER
- TACHOMETER
- LINE SPEED METER
- DISPLAY UNIT
- PROXIMITY SWITCH
- PHOTOELECTRIC SENSOR
- FIBER OPTIC SENSOR
- PRESSURE SENSOR
- ROTARY ENCODER
- SENSOR CONTROLLER
- POWER CONTROLLER
- STEPPING MOTOR & DRIVER & CONTROLLER

AUTONICS Corporation http://www.autonics.net

■HEAD QUARTER

41-5, Yongdang-Ri, Ungsang-Up, Yangsan-Shi Kyung-Nam, Korea 626-847.

■TRADE DEPARTMENT

511 Ansung B/D, 410-13, Shindolim-Dong, Kuro-Gu, Seoul, Korea 152-070

TEL:82-2-679-6585 / FAX:82-2-679-6556 ■E-mail: sales@autonics.net

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