DIN W48×H24mm, Indication only, LCD pulse meter(RPM, RPS, Hz)

в

Ν

5

LR

Features

- Upgraded version of LR7N series
- Easy of 1 pulse input method per 1 revolution
- Display up to 10000RPM
- No need power supply by internal battery
- Protection structure IP66(Front panel only)

Please read "Caution for your safety" in operation

В

Power supply

Displays RPM, RPS of rotator

Ordering information

Size

Displays AC line frequency

manual before using.

LR

Item

5 | N





C: :051-37133855-6 :09014284236 ::09014284236 ::09014284236 (F) Rotary encoder (G) Connector/ Socket

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity

(E) Pressure sensor

senso

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

Specifications

Digit

Model		LR5N-B							(K) Timer
Input met	nput method		No-voltage input				Voltage input 2		
Input signal level		Short-residual voltage : Max. 0.5V Max. short-circuit impedance : Max. 10kΩ Max. open-circuit impedance : Min. 500kΩ		: 4.5-30VD		voltage range C voltage range	Voltage: 30-240VAC		(L) Panel meter (M) Tacho/
				AC	Voltage:3-30VAC			S	Speed/ meter
Power		No-power [includes lithium battery(replaceable)]							(N)
Battery life	e cycle	Over 3 years at 20°C(replaceable)							Display unit
Dispaly m	nethod	LCD Zero blanking method(character height:8.7mm)							
Display digits		5 digit							(O) Sensor controll
Display range and Display accuracy		Display range				Display accuracy			(P) Switchi
		RPM 1 to 10000RPM				1 to 5000RPM: F.S.±0.05%±1digit			
					5001 to 10		RPM: F.S.±0.1%±1digit		mode supply
		0.1RPM	0.1 to 1000.0RPM			F.S±0.05%±1digit			(Q)
		Hz	1 to 1000Hz 0.1 to 100.0Hz			F.S±0.1%±1digit			Stepper motor&
		0.1Hz							Driver&C
		RPS							(R) Graphi
HOLD function		Includes(external HOLD function)							Logic panel
Insulation resistance		100MΩ (at 500VDC megger)							(S)
Dielectric strength		2,000VAC 50/60Hz for 1 min. (cutoff current=10mA)							Field network device
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz(for 1min.) in each X, Y, Z direction for 1 hours							
	Malfunction	0.3mm amplitude at frequency of 10 to 55Hz(for 1min.) in each X, Y, Z direction for 10 min.							(T)
Shock	Mechanical	300m/s ² (approx. 30G) in X, Y, Z directions for 3 times							Sóftwa
	Malfunction	100m/s ² (approx. 10G) in X, Y, Z directions for 3 times							an
Envion- ment	Ambient temperature	-10 to 55°C, Storage: -25 to 65°C							(U) Other
	Ambient humidity	35 to 85%RH, Storage: 35 to 85%RH							
Protection		IP66(when using waterproof rubber for front panel), Terminal cover(finger protector)							
Weight ^{*1}		Approx. 91.5g (approx. 59g)							

Internal lithium battery

DIN W48×H24mm

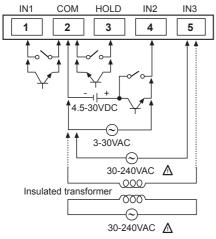
10000(41/2digit)

LCD pulse meter

 \times 1: The weight is with packaging and the weight in parentheses is only unit weight.

Environment resistance is rated at no freezing or condensation.

Connections



%Please use reliable contacts enough to flow 5μA of current when using input signal or reset signal as a contact.

- XIN1 No-voltage input
 - IN2 Voltage input
 - DC voltage input
 - · AC voltage input : Display AC frequency.
- IN3 AC voltage input : Display AC frequency.

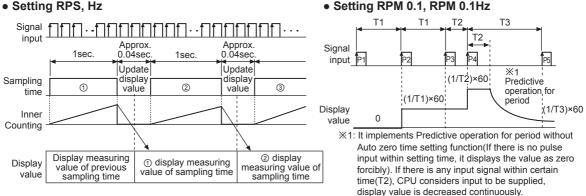
%Choose one among IN1, IN2 and IN3 to use.

∆Caution for IN3 input

: If apply high voltage over 50VAC, it may cause an electric shock. Insulated transformer whose turn ratio is 1:1 must be installed, or countermeasures must be provided.

Operation charts

Setting RPS, Hz

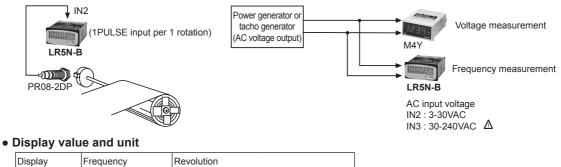


Operation mode (frequency/revolution)

○ Frequency (Hz, 0.1Hz) = f, Revolution(RPM, 0.1RPM)= f × 60, Revolution (RPS)= f

Revolution

AC frequency



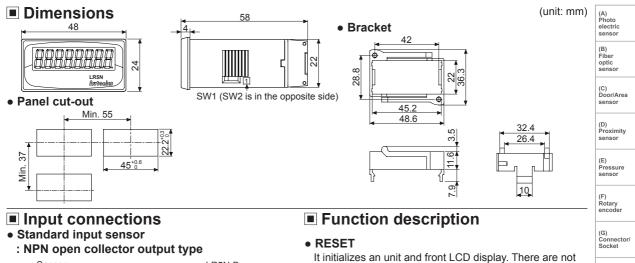
Hz 0.1Hz RPM Unit 0.1RPM RPS(factory default)

Compact LCD Pulse Meter

indicated when set switch1 as RESET.

It stops display value by short circuit HOLD terminal

when it is hard to read the value because of frequent

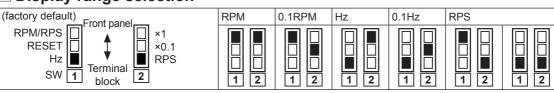


HOLD

input changes.

Sensor LR5N-B Brown 560kΩ 5-24 VDC circuit 1.2kΩ 1.2kΩ Black SIG Main INPUT Blue 0V

Display range selection



Select one among ×1, ×0.1 and RPS by SW2.

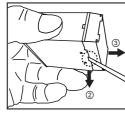
② Shift SW1 to RESET.

③ Select one again between RPM/RPS and Hz by SW1.

%If set display range and front display LCD unit are not same, shift SW1 to RESET and select RPM/RPS or Hz.

Case detachment and Battery replacement

Case detachment



1 1 3

%Hold up Lock part toward ①, ② of the product with the tool and pull toward ③, the case is detached. \bigwedge Please be careful of the injury caused by tools.



- Battery replacement LITHIUM BATTERY 3V
- 1) Detach the case.
- 2) Push the battery and detach toward ①.
- 3) Insert new battery with correct alignment of polarity pushing toward opposite of ①.
- ※Battery is sold separately.

*Do not burn up or disassemble the lithium battery.

- (T) Software
- (U) Other

M-5

:051-37133855-6 :09014284236 WWW.ARCOKALA.COM

Autonics

(N) Display unit

(O) Sensor controller

(H) Temp. controlle

(I) SSR/

Power controlle

(J) Counter

(K) Timer

(L) Panel meter

(P) Switching mode powe supply

(Q) Stepper motor& Driver&Co

(R) Graphic/ Logic panel

(S) Field network device