

Revolutions / Frequency Pulse Meters (Indicator)



LR5N-B Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- 1-pulse input per revolution
- Display up to 10,000 RPM
- Built-in internal battery (power supply not required)
- Display RPM or RPS of rotating shaft or disc
- AC voltage frequency display function
- IP66 protection structure (front panel)

Product Components

- Product (+ bracket)
- Instruction manual

Specifications

Model	LR5N-B		
Display digits	4½-digit		
Display type	LCD Zero Blanking (character size: H 8.7 mm)		
Input type	IN 1: No-voltage input	IN 2: Voltage input 1	IN 3: Voltage input 2
Input signal level	Short-residual voltage : ≤ 0.5 V Short-circuit impedance : ≤ 10 kΩ Open-circuit impedance : ≥ 500 kΩ	High input voltage range : 4.5 - 30 VDC= Low input voltage range : 0 - 2 VDC= Voltage: 3 - 30 VAC~	30 - 240 VAC~
HOLD	YES		
Unit weight (packaged)	≈ 59 g (≈ 91.5 g)		
Power supply	Built-in battery (CR2477)		
Battery life cycle	≥ 3 years (at ≈ 20 °C)		
Insulation resistance	≥ 100 MΩ (500 VDC= megger)		
Dielectric strength	2,000 VAC~ 50 / 60 Hz for 1 min (Cutoff current = 10 mA)		
Vibration	0.75 mm double amplitude at frequency of 10 to 55Hz (for 1 minute) in each X, Y, Z direction for 1 hour		
Vibration (malfunc.)	0.3 mm double amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 10 minute		
Shock	300 m/s ² (≈ 30 G) in each X, Y, Z direction for 3 times		
Shock (malfunc.)	100 m/s ² (≈ 10 G) in each X, Y, Z direction for 3 times		
Ambient temp.	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)		
Ambient humid.	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)		
Protection rating	IP66 (when using waterproof rubber for front panel), terminal cover (finger protector)		
Display unit	Display range	Display accuracy	
RPM	1 to 10000 RPM	1 to 5000 RPM: F.S. ± 0.05 % ± 1-digit 5001 to 10000 RPM: F.S. ± 0.1 % ± 1-digit	
0.1RPM	0.1 to 1000.0 RPM	F.S ± 0.05 % ± 1-digit	
Hz	1 to 1000 Hz		
0.1Hz	0.1 to 100.0 Hz	F.S ± 0.1 % ± 1-digit	
RPS	1 to 1000 RPS		

Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.

