

Keyence LV-N12N

Model: LV-N12N

Brand: Keyence

Series: LV-N series

Digital laser sensor amplifier unit (Cable type, Expansion unit).

—— Hardware ——

Product type: Digital laser sensor amplifier

Type: Expansion unit

Cable/connector: Cable type

Output selection: LIGHT-ON/DARK-ON (switch-selectable)

Control outputs: 1 output

External input: 1 input

Monitor output: None

Timer function: OFF / OFF-delay / ON-delay / One-shot, selectable 1 ms to 9,999 ms, $\pm 10\%$ maximum error

Response time: 80 μ s (HIGH SPEED) / 250 μ s (FINE) / 500 μ s (TURBO) / 1 ms (SUPER) / 4 ms (ULTRA) / 16 ms (MEGA)

Unit expansion: Up to 17 units total (2-output type counted as 2 units)

Interference prevention: 0 to 4 units depending on mode and sensor head

—— Communication ——

Built-in ports: None

Protocols: None (network compatible via NU series units)

Communication expansion: NU series network units available separately

—— Electrical ——

Supply voltage: 24 VDC nominal (operating 10 to 30 VDC, ripple P-P 10% maximum)

Power consumption: 830 mW maximum normal (at 30 V); 30 mA at 24 V

Output type: NPN open collector

Control output rating: NPN open collector 30 V, residual voltage 1 V or less; 100 mA maximum per output

Protection circuit: Reverse polarity, over-current, surge absorber

—— Environmental ——

Operating temperature: -20 to +55 °C (No freezing; derating applies with multiple units)

Relative humidity: 35 to 85 % RH (No condensation)

Protection rating: Not available

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Vibration resistance: 10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each X, Y, Z direction

Shock resistance: 500 m/s² , 3 times in each X, Y, Z direction

—— Physical ——

Dimensions (H×W×D): 32.6 × 9.8 × 78.7 mm

Weight: Approx. 65 g

Case material: Polycarbonate

Cable material: PVC

—— Lifecycle ——

Active; official Keyence production status confirmed via product/spec page (Last verified: 2026-09)



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