Keyence LV-N10

Model: LV-N10
Brand: Keyence
Series: LV-N series

Digital laser sensor amplifier unit (Zero-line type, Expansion unit).

—— Hardware ——
Product type: Digital laser sensor amplifier
Type: Expansion unit
Cable/connector: Zero-line type
Output selection: LIGHT-ON/DARK-ON (switch-selectable)
Control outputs: None
External input: None
No control outputs, no external input, no monitor output
Timer function: OFF / OFF-delay / ON-delay / One-shot, selectable 1 ms to 9,999 ms, ±10% maximum error
Response time: 80 µs (HIGH SPEED) / 250 µs (FINE) / 500 µs (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: Not available
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/s^2 , 3 times in each X, Y, Z direction

—— Physical ——
Dimensions (H×W×D): 32.6 × 9.8 × 78.7 mm
Weight: Approx. 20 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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