

SICK DL50-N2228

Product Model: DL50-N2228

Product Brand: SICK

Product Series: Dx50

=== General Identification ===

- Part Number: 1058987
- Product Sub-Series / Family: Dx50 DL50 Hi
- Measurement Principle: HDDM [™] (High Definition Distance Measurement) Optical Time-of-Flight

=== Technical & Optical Parameters ===

- Measuring / Protective Range: 200 mm ... 50,000 mm (On Diamond Grade reflective tape)
- Light Source: Visible red laser diode (wavelength 658 nm; Class 1 eye-safe per IEC 60825-1:2014; pulse peak 120 mW, pulse duration 2.5 ns)
- Laser Class: Class 1 (IEC 60825-1:2014, EN 60825-1:2014, Eye-safe)
- Response Time: Fast: 15 ms / Medium: 30 ms / Slow: 80 ms (Averaging setting)
- Repeatability: ≥ 1 mm
- Measurement Accuracy: ± 3 mm

=== Interface & Electrical Specifications ===

- Output & Communication Interface: Digital Output: 1x NPN (≤ 100 mA); Serial Communication Interface: RS-422; Multifunctional input (MF)
- Supply Voltage: DC 24 V (18 V ... 30 V; VS > 15 V required for internal heating element; Reverse-polarity protected)
- Power Consumption: ≤ 28 W (Heater active, without external load)
- Electrical Connection: Male connector M12, 8-pin

=== Mechanical & Environmental Specifications ===

- Ambient Temperature, Operation: -40 ° C ... +65 ° C (Integrated heating; -40 ° C ... +80 ° C with 2 cooling plates; -40 ° C ... +140 ° C with 2 cooling plates and protection filter)
- Ambient Temperature, Storage: -40 ° C ... +75 ° C
- Enclosure Protection Rating: IP65 (EN 60529)
- Physical Dimensions (W x H x D): 36.1 mm x 62.7 mm x 57.7 mm
- Housing Material: Zinc die-cast (ZNAL4CU1) with acrylic glass (PMMA) optical window
- Device Weight: Approx. 200 g

=== Features & Functional Highlights ===

- High-precision retro-reflective measurement up to 50 m with RS-422 serial interface (accuracy

You can contact us through the following contact information

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± 3 mm)

- Rugged metal zinc die-cast housing (ZNAL4CU1) engineered for heavy-duty industrial automation
- High-resolution distance measurement with LC display and intuitive menu navigation buttons
- Optical time-of-flight technology (HDDM™) ensuring high repeatability and ambient light stability
- Factory-integrated internal heater for cold-storage and deep-freeze operation down to -40 °C



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