

SICK DL100-21AA2212

Product Model: DL100-21AA2212

Product Brand: SICK

Product Series: Dx100

=== General Identification ===

- Part Number: 1086984
- Product Sub-Series / Family: Dx100 DL100 Pro
- Measurement Principle: Phase Shift Optical Time-of-Flight Laser Distance Measurement

=== Technical & Optical Parameters ===

- Measuring / Protective Range: 0.15 m ... 100 m (On Diamond Grade reflective tape)
- Light Source: Visible red laser diode (wavelength 658 nm; Class 2 per IEC 60825-1:2014; average optical power < 1 mW)
- Laser Class: Class 2 (IEC 60825-1:2014, EN 60825-1:2014)
- Output Time / Measurement Cycle: ≥ 1 ms (Continuous internal measurement rate 1 ms; fieldbus cycle dependent)
- Repeatability: 0.5 mm ... 1 mm (Typical 0.5 mm at 1σ)
- Measurement Accuracy: Typ. ± 2 mm ... ± 3 mm
- Maximum Tracking Velocity: 15 m/s
- Maximum Acceleration: 15 m/s²

=== Interface & Electrical Specifications ===

- Output & Communication Interface: Fieldbus Interface: PROFINET IO Netload Class III (Enhanced cybersecurity & robust network traffic handling); Auxiliary Digital Outputs: 2x Push-Pull (PNP/NPN, configurable B/Q, ≤ 100 mA); Multifunctional input (MF)
- Supply Voltage: DC 18 V ... 30 V (Reverse-polarity protected; Limit values)
- Power Consumption: Typ. 8 W ... 10 W
- Electrical Connection: Power: Male M12 4-pin; PROFINET: 2x Female M12, 4-pin (D-coded, SPEEDCON™)

=== Mechanical & Environmental Specifications ===

- Ambient Temperature, Operation: -20 ° C ... +55 ° C
- Ambient Temperature, Storage: -40 ° C ... +75 ° C
- Enclosure Protection Rating: IP65 (EN 60529)
- Physical Dimensions (W x H x D): 69.4 mm x 82.5 mm x 100.2 mm
- Housing Material: Aluminum die-cast with acrylic glass (PMMA) optical window
- Device Weight: Approx. 800 g

You can contact us through the following contact information

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=== Features & Functional Highlights ===

- High-precision dynamic positioning up to 100 m on Diamond Grade reflective tape
- Communication protocol: PROFINET IO Netload Class III (Enhanced cybersecurity & robust network traffic handling)
- High dynamic acceleration up to 15 m/s^2 and tracking velocity up to 15 m/s for automated storage & retrieval systems (ASRS)
- Integrated LC display with intuitive menu navigation and optical 3-axis alignment bracket compatibility
- Continuous condition monitoring: signal level attenuation, laser diode aging, and temperature tracking



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