

SICK DT500-A311

Product Model: DT500-A311

Product Brand: SICK

Product Series: Dx500

=== General Identification ===

- Part Number: 1040475
- Product Sub-Series / Family: Dx500 Short Range
- Measurement Principle: Pulsed Optical Laser Time-of-Flight Distance Measurement

=== Technical & Optical Parameters ===

- Measuring / Protective Range: 0.2 m ... 7 m (90% white remission), 0.8 m ... 7 m (6% black remission)
- Light Source: Visible red laser diode (wavelength 650 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)
- Response Time: 150 ms (Fast short-range mode)
- Repeatability: 3 mm ... 5 mm
- Measurement Accuracy: Typ. ± 3 mm ... ± 10 mm

=== Interface & Electrical Specifications ===

- Output & Communication Interface: Analog Output: 1x Current output (0 mA ... 20 mA, $\leq 500 \Omega$); Serial Interface: RS-422; 1x PNP Multifunctional input (MF)
- Supply Voltage: DC 10 V ... 30 V (Reverse-polarity protected; Limit values)
- Power Consumption: ≤ 3.5 W ... 4 W (Without load)
- Electrical Connection: Male connector M12, 5-pin

=== Mechanical & Environmental Specifications ===

- Ambient Temperature, Operation: -10°C ... $+45^{\circ}\text{C}$
- Ambient Temperature, Storage: -25°C ... $+75^{\circ}\text{C}$
- Enclosure Protection Rating: IP65 (EN 60529)
- Physical Dimensions (W x H x D): 69 mm x 50 mm x 153 mm
- Housing Material: Heavy-duty aluminum die-cast housing
- Device Weight: Approx. 1,000 g

=== Features & Functional Highlights ===

- Short-range high-precision reflectorless distance measurement up to 7 m (hot slabs, metal coils, coal, paper rolls)
- High optical output power ensures reliable measurement on dark and uncooperative surfaces

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without reflector

- Robust cast aluminum housing withstands severe industrial vibration and impact
- Front panel display and keypad for direct on-site setup



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