

SICK DT35-B15551

Product Model: DT35-B15551

Product Brand: SICK

Product Series: Dx35

=== General Identification ===

- Part Number: 1057651
- Product Sub-Series / Family: Dx35 Distance Sensor
- Measurement Principle: HDDM[™] (High Definition Distance Measurement) Optical Time-of-Flight

=== Technical & Optical Parameters ===

- Measuring / Protective Range: 50 mm ... 12,000 mm (90% remission), 50 mm ... 5,300 mm (18%), 50 mm ... 3,100 mm (6%)
- Light Source: Visible red laser diode (wavelength 658 nm; Class 1 eye-safe per IEC 60825-1:2014; average optical power < 1 mW, pulse peak 250 mW, pulse duration 4 ns, duty cycle 1/500)
- Laser Class: Class 1 (IEC 60825-1:2014, EN 60825-1:2014, Eye-safe)
- Response Time: Super Fast: 4.5 ms / Fast: 12.5 ms / Medium: 24.5 ms / Slow: 48.5 ms / Super Slow: 192.5 ms
- Repeatability: ≥ 0.5 mm ... 5 mm (Speed setting and remission factor dependent)
- Measurement Accuracy: Typ. ± 10 mm

=== Interface & Electrical Specifications ===

- Output & Communication Interface: Digital Output Q1: 1x Push-Pull (PNP/NPN) / IO-Link V1.1; Shared Configurable Output Q2: Selectable as Analog Current (4 mA ... 20 mA, $\leq 450 \Omega$) / Analog Voltage (0 V ... 10 V, $\geq 50 k\Omega$) / Digital Push-Pull (PNP/NPN); Multifunctional input (MF)
- Supply Voltage: DC 12 V ... 30 V (Reverse-polarity protected; Limit values; $V_s > 18$ V when IO-Link is active; $V_s > 13$ V when analog voltage output is active)
- Power Consumption: ≤ 1.7 W (at +20 °C, without load, speed setting Slow)
- Electrical Connection: Male connector M12, 5-pin

=== Mechanical & Environmental Specifications ===

- Ambient Temperature, Operation: -30 °C ... +55 °C ($U_v \leq 24$ V)
- Ambient Temperature, Storage: -40 °C ... +75 °C
- Enclosure Protection Rating: IP65 (EN 60529)
- Physical Dimensions (W x H x D): 32 mm x 58.6 mm x 42.7 mm
- Housing Material: Plastic (ABS/PC) with acrylic glass (PMMA) optical window
- Device Weight: Approx. 65 g

You can contact us through the following contact information

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=== Features & Functional Highlights ===

- Direct diffuse optical distance measurement up to 12 m on natural objects
- HDDM™ optical time-of-flight technology offering high immunity to ambient light and surface colors
- Shared adaptable channel Q2 allows software selection between 4-20mA ($\leq 450 \Omega$), 0-10V ($\geq 50 \text{ k}\Omega$), or digital switching
- Integrated IO-Link V1.1 for continuous distance streaming, diagnostics, and parameter cloning
- On-board teach-in pushbuttons and status LEDs for fast commissioning



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