

# SICK S30A-6011DA

Product Model: S30A-6011DA

Product Brand: SICK

Product Series: S3000

## === General Identification ===

- Part Number: 1019600
- Product Sub-Series / Family: S3000 Professional (Medium Range)
- Measurement Principle: 2D LiDAR Optoelectronic Pulsed Laser Safety Scanning (Time-of-Flight)

## === Technical & Optical Parameters ===

- Measuring / Protective Range: Protective field range: 5.5 m; Warning field range: 49 m radial warning field
- Light Source: Pulsed laser diode (wavelength 905 nm; Class 1 eye-safe per IEC 60825-1:2014; average optical power < 1 mW)
- Laser Class: Class 1 (IEC 60825-1:2014, EN 60825-1:2014, Eye-safe)
- Response Time:  $\leq 60$  ms (Configurable via multiple sampling rate: 60 ms ... 120 ms)
- Scanning Angle: 190° scanning angle (0.25° or 0.5° angular resolution)
- Object Resolution: 30 mm / 40 mm / 50 mm / 70 mm / 150 mm (Configurable depending on resolution setup)
- Safety Integrity Level: Type 3 (IEC 61496-1, -3), SIL 2 (IEC 61508), SILCL 2 (EN 62061), PL d / Category 3 (EN ISO 13849-1)
- Measurement Accuracy: Systematic measurement error: Typ.  $\pm 35$  mm

## === Interface & Electrical Specifications ===

- Output & Communication Interface: Safety Outputs: 1x OSSD pair (PNP, 250 mA); Incremental encoder inputs (A/B phase); Safe EFI bus
- Supply Voltage: DC 24 V (16.8 V ... 28.8 V; SELV/PELV safety extra-low voltage)
- Power Consumption: Typ. 19 W (Without external output loads)
- Electrical Connection: System plug with cable gland / M12 connectors

## === Mechanical & Environmental Specifications ===

- Ambient Temperature, Operation: -10 ° C ... +50 ° C
- Ambient Temperature, Storage: -20 ° C ... +70 ° C
- Enclosure Protection Rating: IP65 (EN 60529)
- Physical Dimensions (W x H x D): 155 mm x 185 mm x 160 mm
- Housing Material: Aluminum die-cast with polycarbonate (PC) optical hood
- Device Weight: Approx. 3.3 kg

You can contact us through the following contact information

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=== Features & Functional Highlights ===

- Mobile and stationary safeguarding with 5.5 m protective field and 49 m warning field
- 8 field sets (up to 16 fields total), 16 monitoring cases
- Integrated incremental encoder inputs for velocity-dependent adaptive protective field switching on AGVs
- Ideal for automated guided vehicles (AGV), automated forklifts, and mobile robotics



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