



S30A-4011

S3000 Standard

SAFETY LASER SCANNERS

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|-----------|----------|
| S30A-4011 | 2034999 |

Sensor head for S3000 Standard, Advanced, Professional, Remote and Expert

Other models and accessories → www.sick.com/S3000_Standard



Detailed technical data

Features

| | |
|---|-----------------------------------|
| Model | Sensor without system plug |
| Application | Indoor |
| Protective field range | 4 m |
| Number of simultaneously monitored protective fields | ≤ 4 ¹⁾ |
| Scanning angle | 190° |
| Angular resolution | Depending on range and resolution |
| Response time | 60 ms ²⁾ |

¹⁾ If several protective fields are monitored simultaneously, the shut-off signals must be connected to safe outputs on a Flexi Soft safety controller or routed via a safe EFI gateway.

²⁾ Depending on basic response time and multiple sampling.

Safety-related parameters

| | |
|---|---------------------------|
| Type | Type 3 (IEC 61496) |
| Safety integrity level | SIL 2 (IEC 61508) |
| Category | Category 3 (EN ISO 13849) |
| Performance level | PL d (EN ISO 13849) |
| PFH_D (mean probability of a dangerous failure per hour) | 8.0 x 10 ⁻⁸ |
| T_M (mission time) | 20 years (EN ISO 13849) |

Functions

| | |
|---|------------|
| External device monitoring (EDM) | ✓ |
| Integrated configuration memory | ✓ |
| Measured data output | Via RS-422 |

Safe SICK device communication via EFI

✓

Electrical data

Protection class

II (EN 50178)

Ambient data

Enclosure rating

IP65 (EN 60529)

Ambient operating temperature

-10 °C ... +50 °C

Storage temperature

-25 °C ... +50 °C

Vibration resistance

IEC 60068-2-6, IEC 60068-2-64, IEC 60721-3-5, IEC TR 60721-4-5, IEC 61496-3

Class

5M1 (IEC 60721-3-5)

Shock resistance

IEC 60068-2-27, IEC 60721-3-5, IEC TR 60721-4-5, IEC 61496-3

Class

5M1 (IEC 60721-3-5)

Continuous shock

50 m/s², 11 ms
100 m/s², 16 ms

Other information

Type of light

Pulsed laser diode

Wave length

905 nm

Detectable remission factor

1.8 % ... > 1,000 %, reflectors

Laser class

1 (21 CFR 1040.10 and 1040.11, IEC 60825-1)

Classifications

ECLASS 5.0

27272705

ECLASS 5.1.4

27272705

ECLASS 6.0

27272705

ECLASS 6.2

27272705

ECLASS 7.0

27272705

ECLASS 8.0

27272705

ECLASS 8.1

27272705

ECLASS 9.0

27272705

ECLASS 10.0

27272705

ECLASS 11.0

27272705

ECLASS 12.0

27272705

ETIM 5.0

EC002550

ETIM 6.0

EC002550

ETIM 7.0

EC002550

ETIM 8.0

EC002550

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SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com