



S30A-XXXXDA

S3000 Professional

SAFETY LASER SCANNERS

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|-------------|----------|
| S30A-XXXXDA | 2022827 |

Other models and accessories → www.sick.com/S3000_Professional



Detailed technical data

Features

| | |
|---|-----------------------------------|
| Model | I/O module |
| Application | Indoor |
| Number of simultaneously monitored protective fields | ≤ 4 ¹⁾ |
| 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) | ✓ |
| Dynamic protective field switching | ✓ |
| Integrated configuration memory | ✓ |
| Measured data output | Via RS-422 |
| Safe SICK device communication via EFI | ✓ |

Electrical data

| | |
|---|--|
| Protection class | II (EN 50178) |
| Supply voltage V_s | 24 V DC (16.8 V DC ... 28.8 V DC) |
| Power consumption | $\leq 0.8 \text{ A}^{1)}$ $\leq 2.3 \text{ A}^{2)}$ |
| Outputs | |
| Output signal switching devices (OSSDs) | 2 x 500 mA |
| Application diagnostic outputs | 3 x 100 mA ³⁾ |

¹⁾ At 24 V DC without output load.

²⁾ At 24 V DC including maximum output load.

³⁾ Freely programmable, e.g. warning field, contamination, reset required.

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/s ² , 11 ms 100 m/s ² , 16 ms |

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 |
| UNSPSC 16.0901 | 39121528 |

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