



S30A-xxxxCP

S3000 PROFINET IO Advanced

SAFETY LASER SCANNERS





Ordering information

| Туре | Part no. |
|-------------|----------|
| S30A-xxxxCP | 2047737 |

Other models and accessories → www.sick.com/S3000_PR0FINET_IO_Advanced



Detailed technical data

Features

| Model | I/O module |
|--|-----------------------------------|
| Application | Indoor |
| Number of simultaneously monitored protective fields | 2 |
| Angular resolution | Depending on range and resolution |
| Response time | 60 ms ¹⁾ |

 $^{^{1)}}$ Depending on basic response time and multiple sampling.

Safety-related parameters

| Туре | Type 3 (IEC 61496) |
|---|---------------------------|
| Safety integrity level | SIL 2 (IEC 61508) |
| Category | Category 3 (EN ISO 13849) |
| Performance level | PL d (EN ISO 13849) |
| \ensuremath{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

| Contour as a reference | ✓ |
|---------------------------------|------------|
| Integrated configuration memory | ✓ |
| Measured data output | Via RS-422 |

Interfaces

| Connection type | |
|---|--|
| Supply connection | System plug with or without connecting cable |
| Configuration and diagnostics interface | RS-232, RS-232 |
| Transmission rate | 9.6 kBaud, 19.2 kBaud, 38.4 kBaud |
| Fieldbus, industrial network | PROFINET PROFIsafe |

| Type of fieldbus integration | Integrated in the device |
|----------------------------------|--|
| Device properties | PROFINET IO module with 2-port real-time switch according to PROFINET specification V2.2 PROFIsafe profile with 6-octet input and 6-octet output according to IEC 61784-3-3 V2.4 Cycle time 4, 8, 16, 32 ms, etc. GSDML according to GSDML specification V2.25 |
| Switch properties | Filtering Data Base according to IEEE 802.1D 6 prioritization levels for IEEE 802.1Q – Network prioritization 64 KB SRAM memory for caching telegrams, managed in 768-byte segments Resource prioritization for network control and RTC2/3 frames Telegram extension based on "Cut-through" Port status (Disabled, Blocking, Forwarding) Support for non-real-time and real-time data transfer |
| Port properties | Auto-negotiation Auto-crossover (MDIX) Auto-polarity 100Base-TX |
| Conformance | Conformance Class B |
| Topology support | SNMP, MIB-2, LLDP according to IEEE 802.1AB MRP client support |
| Diagnostics | Application-related manufacturer-specific channel diagnostics and channel diagnostics for the PROFIsafe profile, individually switchable Report system errors Maintenance alerts for POF interfaces for signal quality Cable diagnostics Neighborhood alerts Support for port statistics I&M support from I&MO to I&M4 |
| Interfaces | TCP port 9000 and UDP port 30718 RS-232 |
| Functions that are not supported | Multicast communication Supervisor AR MAC-pause mechanism in full duplex Back-pressure in half duplex Static learning Broadcast Storm Control |

Electrical data

| Protection class | III (VDE 0106, EN 60950) |
|----------------------|-------------------------------|
| Supply voltage V_s | 24 V DC (16.8 V DC 28.8 V DC) |
| Power consumption | \leq 0.8 A $^{1)}$ |

¹⁾ At 24 V DC without output load.

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 |

Classifications

| CLASS 5.0 | 27272705 |
|-----------|----------|
|-----------|----------|

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| 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 |

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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.

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