



Safety laser scanners  
S3000 PROFINET IO Advanced, Sensor head with  
I/O module

S30A-6111CP



**Model Name** > [S30A-6111CP](#)  
**Part No.** > [1045652](#)



**At a glance**

- Direct integration in PROFINET IO safe bus system
- 5.5 m protective field range
- Four switchable field sets (four protective fields, four warning fields)
- Remote diagnostics and configuration through safety controller
- Managed 2-port switch for RJ45 plug connector
- Configuration memory integrated in the system plug
- Simultaneous monitoring of two protective fields

**Your benefits**

- Reliable, fault-tolerant communication with PLC controller using state-of-the-art fiber-optic technology.
- Efficient, cost-effective protection - networked through direct connection to PROFINET IO networks
- Rapid diagnosis by means of remote access prevents downtimes
- Standardized integration in PLC controllers, thanks to GSDML generic station description
- Largest protective field range in the market increases the variety of application possibilities
- Quick recommissioning via configuration memory
- Easy installation, commissioning and maintenance for stationary and mobile applications
- Decades of proven safety technology guarantee maximum reliability and availability - even under difficult conditions



**Applications**

- |   |   |
|---|---|
| Hazardous area protection (vertical):   | ✓ |
| Access protection (vertical):           | ✓ |
| Hazardous area protection (horizontal): | ✓ |

**Functions**

- |   |   |
|---|---|
| Number of simultaneously monitored protective fields: | 2 |
| Static protective field switching:                    | - |
| Incremental encoder inputs:                           | - |
| External device monitoring (EDM):                     | - |
| Integrated configuration memory:                      | ✓ |

Expanded measured data output (CMS, RS-422): -  
Measured data output (RS-422): -  
Safe device communication via EFI/SDL: -

## Technical data

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Laser class: 1 (21 CFR 1040.10 and 1040.11, DIN EN 60825:2001)  
Enclosure rating: IP 65 (EN 60529)  
Protection class: III (EN 50178)  
Type: Type 3 (IEC/EN 61496-3)  
Safety integrity level: SIL2 (IEC 61508), SILCL2 (EN 62061)  
Category: Category 3 (EN ISO 13849)  
Performance level: PL d (EN ISO 13849)  
PFHd:  $8.0 \cdot 1E-08$  (EN ISO 13849)  
TM (mission time): 20 a (EN ISO 13849)  
Ambient operating temperature: -10 °C ... 50 °C  
Dimensions (W x H x D): 155 mm x 185 mm x 160 mm  
Weight: 3.3 kg  
Scan angle: 190 °  
Protective field range: 5.5 m  
Maximum warning field range: 49 m  
Number of field sets: 4<sup>1)</sup>  
Number of monitoring cases: 4  
Response time: 60 ms<sup>2)</sup>  
Resolution: 30 mm, 40 mm, 50 mm, 70 mm, 150 mm, selectable  
Distance measuring range: 49 m  
Number of multiple samplings: Configurable via CDS 2 ... 16  
Electrical connection: Copper conductor (2 sockets for RJ-45 push-pull plug), plug-in supply connector with screw type terminal and cable gland for cable diameter 5 mm ... 10 mm  
Supply voltage: 16.8 V DC, 24 V DC, 28.8 V DC  
Configuration and diagnostics interface: RS-232  
Device properties: PROFINET IO device 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 nach 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  
Cable diagnostics  
Neighborhood alerts  
Support for port statistics  
I&M support from I&M0 to I&M4

Interfaces for configuration and diagnostics using CDS:

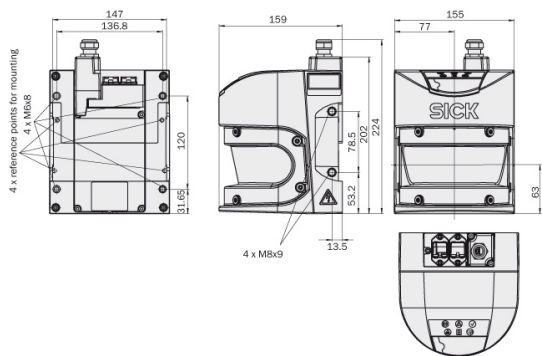
TCP port 9000 and UDP port 30718  
RS-232

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

- 1) One field set = one protective field and two warning fields      2) Depending on basic response time and multiple sampling

### Dimensional drawing



**Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Ceská Republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail kundenservice@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederlands**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail admin@sicksgp.com.sg

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)