



safety laser scanners  
S3000 PROFINET IO Professional, Sensor head  
with I/O module

S30A-4111DP



**Model Name** > [S30A-4111DP](#)  
**Part No.** > [1045651](#)



**At a glance**

- Direct integration in PROFINET IO safe bus system
- 4 m protective field range
- 8 switchable field sets
- 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 2 protective fields

**Your benefits**

- Reliable, fault-tolerant communication with FPLC 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 FPLC 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):	-
Measured data output:	✓
Safe SICK 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 (VDE 0106, EN 60950)
Type:	Type 3 (IEC 61496)
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 * 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:	4 m
Maximum warning field range:	49 m
Number of field sets:	8
Type of field set:	Dual field sets
Number of monitoring cases:	16
Response time:	60 ms <sup>1)</sup>
Resolution:	30 mm, 40 mm, 50 mm, 70 mm, 150 mm, configurable
Distance measuring range:	49 m
Number of multiple samplings:	Configurable 2 ... 16
Electrical connection:	Copper conductor (2 female connectors for RJ-45 push-pull plug), system plug with or without connecting cable
Supply voltage:	16.8 V DC, 24 V DC, 28.8 V DC
Configuration and diagnostics interface:	RS-232
Device properties:	GSDML according to GSDML specification V2.25, 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.
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:

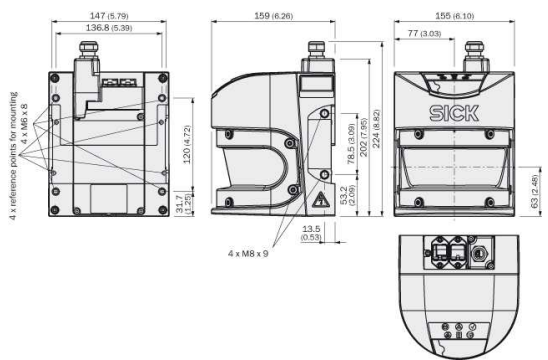
Functions that are not supported:

TCP port 9000 and UDP port 30718  
RS-232

Multicast communication  
Supervisor AR  
MAC-pause mechanism in full duplex  
Back-pressure in half duplex  
Static learning  
Broadcast Storm Control

1) Depending on basic response time and multiple sampling

### Dimensional drawing



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