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

S30A-4111CL

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Model Name **> S30A-4111CL**
Part No. **> 1052591**

At a glance

- Direct integration in PROFINET IO safe bus system
- 4 m protective field range
- Four switchable field sets (four protective fields, four warning fields)
- Managed 2-port switch for fiber-optic connector
- Configuration memory integrated in the system plug
- Configurable system plug in I/O module
- Remote diagnostics and configuration through safety controller
- 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):	-

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

Technical data

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 * 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:	4 [1]
Number of monitoring cases:	4
Response time:	60 ms [2]
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:	Optical fiber conductor (2 sockets for SCRJ 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-FX
Conformance:	Conformance Class B
Topology support:	SNMP, MIB-2, LLDP nach IEEE 802.1AB MRP client support

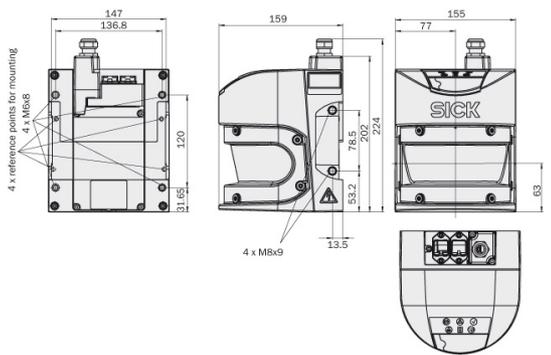|	
Diagnostics:	Application-related manufacturer-specific channel diagnostics and channel diagnostics for the PROFIsafe profile, individually switchable
	Report system errors
	Maintenance alerts for POF interfaces for signal quality
	Cable diagnostics
	Neighborhood alerts
	Support for port statistics
	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**

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SICK AG | Waldkirch | Germany | www.sick.com