

SICK Sensor Intelligence.

SAFETY LASER SCANNERS



Illustration may differ



Ordering information

Туре	Part no.
S30A-7111DL	1052596

Usage

The system plug has to be ordered separately. For details, see "Accessories, plug connectors and cables".

Network cable and male connector cannot be purchased from SICK.

Other models and accessories -> www.sick.com/S3000_PROFINET_I0_Professional

Detailed technical data

Features

Usage	S3000 PROFINET IO does not have any local inputs or outputs and is only operated in a net- work with corresponding controller.
Model	Sensor without system plug
Application	Indoor
Protective field range	7 m
Warning field range	49 m (20 m at 20 % reflectivity)
Distance measuring range	49 m
Number of simultaneously monitored pro- tective fields	2
Type of field set	Dual field sets
Number of field sets	8
Number of fields	16
Number of monitoring cases	16
Scanning angle	190°
Resolution (can be configured)	30 mm, 40 mm, 50 mm, 70 mm, 150 mm
Angular resolution	0.5°, 0.25°, depending on range and resolution
Response time	60 ms ¹⁾
Protective field supplement	100 mm
Number of multiple samplings	2 16, configurable
Delay of automatic reset	120 ms 4,920 ms, configurable

 $^{\left(1\right) }$ Depending on basic response time and multiple sampling.

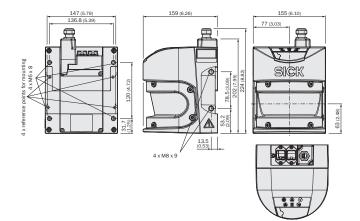
Safety-related parameters	
Туре	Type 3 (IEC 61496)
Safety integrity level	SIL 2 (IEC 61508)
Category	Category 3 (EN ISO 13849)
Performance level	PL d (EN ISO 13849)
$\ensuremath{\text{PFH}}\xspace_D$ (mean probability of a dangerous failure per hour)	8.0 x 10 ⁻⁸
T _M (mission time)	20 years (EN ISO 13849)
Safe state in the event of a fault	The safety-related data is logic 0.
Functions	
Restart interlock	✓
Multiple sampling	✓
Monitoring case switching	✓
Simultaneous monitoring	✓
Static protective field switching	✓
Contour as a reference	✓
Integrated configuration memory	1
Measured data output	Via RS-422
Interfaces	
Connection type	
Bus connection	Optical fiber conductor (2 female connectors for SCRJ push-pull plug)
Supply connection	System plug with or without connecting cable
Configuration and diagnostics interface	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 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 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

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Supply voltage V, Power consumption 24 V DC (16.8 V DC 28.8 V DC) Power consumption s.0.8 A ⁻¹ ¹ , At 24 V DC without output tead.	Electrical data	
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	ECLASS 6.0	27272705
ECLASS 7.0 97272705	ECLASS 6.2	27272705
ECLASS 1.0 21212105	ECLASS 7.0	27272705

SAFETY LASER SCANNERS

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

Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

Other models and accessories -> www.sick.com/S3000_PROFINET_I0_Professional

	Brief description	Туре	Part no.
Mounting brac	kets and plates		
2	1 piece, Visor for heavy duty mounting kit (2080350), steel, painted (RAL 1021)	Heavy duty sight	2083733
	1 piece, Mounting bracket, heavy-duty version, with protection cover, for floor mount- ing, adjustable longitudinal and lateral axes via alignment plate, height adjustment possible. Tilt angle \pm 5°. Additional mounting brackets are not required., steel, painted (RAL 1021)	Heavy-duty mounting kit	2080350
	1 piece, mounting bracket for direct mounting, from the rear, on wall or machine, not adjustable, Aluminum	Mounting kit 1	2015623

	Brief description	Туре	Part no.
	1 piece, mounting bracket for rear mounting on wall or machine, adjustable longitudi- nal and lateral axes, only in conjunction with mounting kit 1 (2015623), Aluminum	Mounting kit 2	2015624
	1 piece, mounting bracket for rear mounting on wall, floor, or machine, adjustable longitudinal and lateral axes, only in conjunction with mounting kit 1 (2015623) and 2 (2015624), Aluminum	Mounting kit 3	2015625
Others			
and to	 Connection type head A: Male connector, M8, 4-pin, straight Connection type head B: Male connector, USB-A, straight Cable: 10 m, 4-wire, PVC Description: Unshielded, Configuration cable with integrated RS-232 transducer on USB for connecting a sensor configuration connection (M8, 4-pin) to the USB interface of a PC 	DSL-8U04G10M025KM1	6034575
	 Connection type head A: Male connector, M8, 4-pin, straight Connection type head B: Male connector, USB-A, straight Cable: 2 m, 4-wire, PVC Description: Unshielded, Configuration cable with integrated RS-232 transducer on USB for connecting a sensor configuration connection (M8, 4-pin) to the USB interface of a PC 	DSL-8U04G02M025KM1	6034574
	 Connection type head A: System plug Description: Without cable, Not for use of incremental encoders, integrated configuration storage, For S3000 PROFINET IO Advanced and Professional Items supplied: With 1 x cable gland M16 	SX1A-A0000L	2047286
	 Connection type head A: System plug Cable: 1 m, 2-wire, PVC Description: Pre-assembled, Not for use of incremental encoders, integrated configuration storage, unshielded, For S3000 PROFINET IO Advanced and Professional Connection systems: Flying leads Items supplied: With 1 x cable gland M16 	SX1A-B0201L	2049575
	 Connection type head A: System plug Cable: 1 m, 2-wire, PVC Description: Pre-assembled with power y-junction, Not for use of incremental encoders, integrated configuration storage, unshielded, For S3000 PROFINET IO Advanced and Professional Items supplied: With 1 x cable gland M16 	SX1A-B0201M	2049857

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."

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