



S30A-6011EA

S3000 Remote

SAFETY LASER SCANNERS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
S30A-6011EA	1023548

Other models and accessories → www.sick.com/S3000_Remote

Detailed technical data

Features

Usage	Can only be used in the EFI system network, e.g., with a Flexi Soft safety controller and an additional S300 or S3000 safety laser scanner
Model	Sensor without system plug
Application	Indoor
Protective field range	5.5 m
Warning field range	49 m (20 m at 20 % reflectivity)
Distance measuring range	49 m
Number of simultaneously monitored protective fields	≤ 4 ¹⁾
Type of field set	Triple field sets, dual field sets
Number of field sets	32 ²⁾ ³⁾
Number of fields	64
Number of monitoring cases	32 ³⁾
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 ⁴⁾

¹⁾ If several protective fields are monitored simultaneously, the shut-off signals must be connected to safe outputs on a Flexi Soft safety controller or routed via a safe EFI gateway.

²⁾ In dual field mode 32, in triple field mode 21 field sets.

³⁾ The performance characteristics of the Remote device correspond to those of the host. If the system exclusively consists of Remote devices connected to an EFI partner, 16 dual field sets or 10 triple field sets and 32 monitoring cases are available. For monitoring case switching static or dynamic inputs of the EFI partner have to be used.

⁴⁾ Depending on basic response time and multiple sampling.

Protective field supplement	100 mm
Number of multiple samplings	2 ... 16, configurable
Delay of automatic reset	2 s ... 60 s, configurable

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Safety-related parameters

Type	Type 3 (IEC 61496)
Safety integrity level	SIL 2 (IEC 61508)
Category	Category 3 (EN ISO 13849)
Performance level	PL d (EN ISO 13849)
PFH_D (mean probability of a dangerous failure per hour)	8.0×10^{-8}
T_M (mission time)	20 years (EN ISO 13849)
Safe state in the event of a fault	At least one OSSD is in the OFF state.

Functions

Restart interlock	✓
External device monitoring (EDM)	✓
Multiple sampling	✓
Monitoring case switching	✓
Simultaneous monitoring	✓
Static protective field switching	✓
Dynamic protective field switching	✓
Contour as a reference	✓
Integrated configuration memory	✓
Measured data output	Via RS-422
Safe SICK device communication via EFI	✓

Electronics

Protection class	II (EN 50178)
Supply voltage V_s	24 V DC (16.8 V DC ... 28.8 V DC)
Power consumption	0.8 A ¹⁾ 2.3 A ²⁾
Outputs	
Output signal switching devices (OSSDs)	2 x 500 mA
Application diagnostic outputs	3 x 100 mA ³⁾

¹⁾ At 24 V DC without output load.

²⁾ At 24 V DC including maximum output load.

³⁾ Freely programmable, e.g. warning field, contamination, reset required.

Mechanics

Dimensions (W x H x D)	155 mm x 185 mm x 160 mm
Weight	3.3 kg
Housing material	Aluminum die cast
Housing color	RAL 1021 (yellow)
Front screen material	Polycarbonate
Front screen surface finish	Outside with scratch-resistant coating

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
Shock resistance	Class 5M1 (IEC 60721-3-5)
Shock resistance	IEC 60068-2-27, IEC 60721-3-5, IEC TR 60721-4-5, IEC 61496-3
Shock resistance	Class 5M1 (IEC 60721-3-5)
Continuous shock	50 m/s², 11 ms
Continuous shock	100 m/s², 16 ms

Other information

Type of light	Pulsed laser diode
Wave length	905 nm
Detectable remission factor	1.8 % ... > 1,000 %, reflectors
Laser class	1 (21 CFR 1040.10 and 1040.11, IEC 60825-1)

Certificates

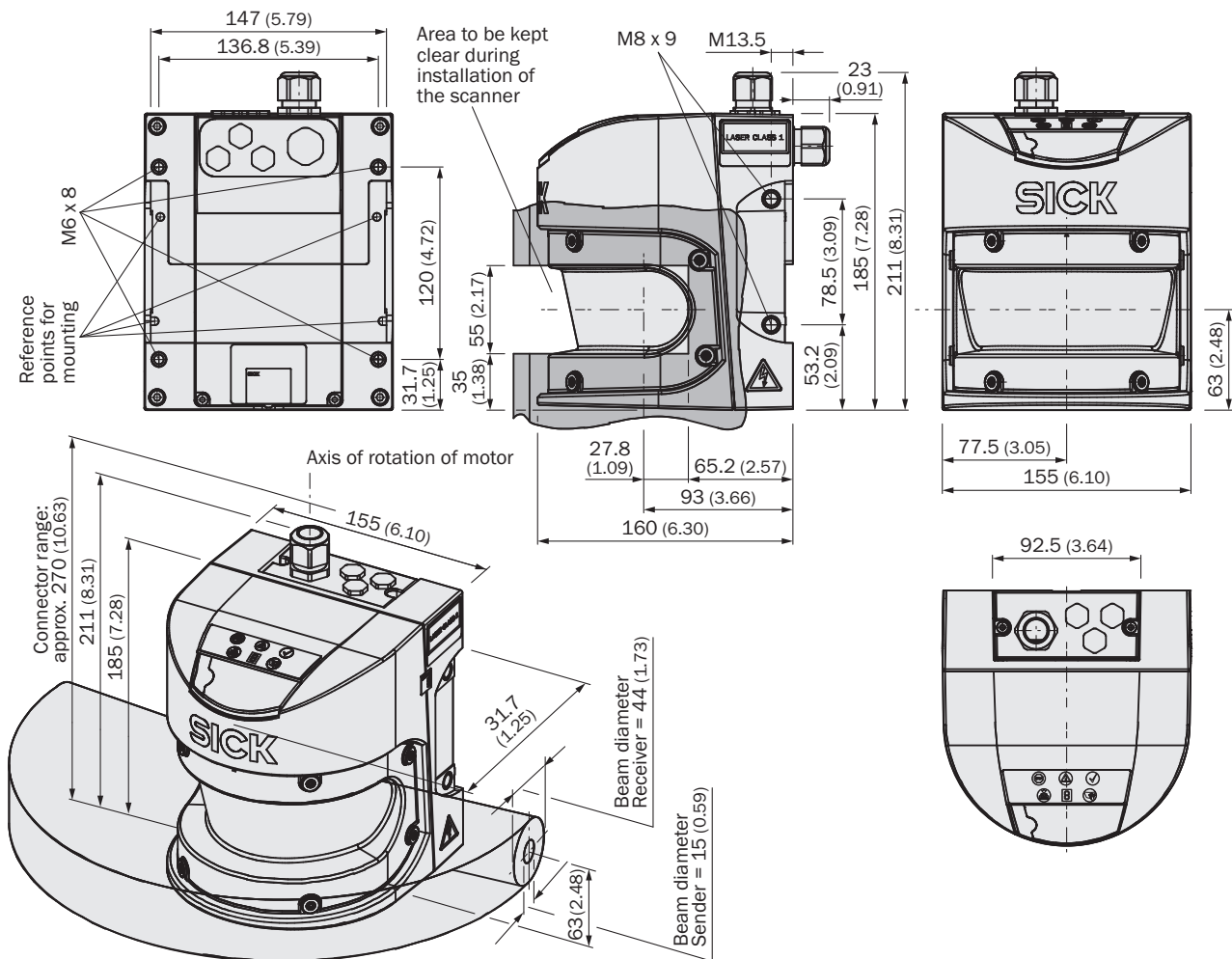
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
EC-Type-Examination approval	✓
China GB certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

Classifications

ECLASS 5.0	27272705
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

Dimensional drawing



Dimensions in mm (inch)






The diagram illustrates the electrical wiring for the S3000 Professional and S3000 Remote control system. The main components and their connections are as follows:

- Power Supply:** +24 V and 0 V lines are shown at the top and bottom of the diagram.
- Switches:** S1, k1, k2, A1, A2, B1, and B2 are connected to the +24 V line. S1 is a single-pole switch, while k1, k2, A1, A2, B1, and B2 are double-pole switches.
- Relays:** K1 and K2 are connected to the +24 V line. K1 is a single-pole relay, and K2 is a double-pole relay.
- Lamps:** H8, H3, and H2 are connected to the +24 V line. H8 and H3 are single-lamp units, and H2 is a double-lamp unit.
- HTL Sensors:** HTL 1/f and HTL D are connected to the +24 V line. HTL 1/f is a single-sensor unit, and HTL D is a double-sensor unit.
- Control Units:** The S3000 Professional and S3000 Remote control units are shown with their respective pin connections. The S3000 Professional has 24 pins, and the S3000 Remote has 24 pins.
- Legend:** A legend in the top right corner defines the switch symbols: k1, k2, A1, A2, B1, B2, and C. It also shows the connection of the HTL sensor to the control unit.

Recommended accessories

Other models and accessories → www.sick.com/S3000_Remote

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none"> Description: Visor for heavy duty mounting kit (2080350) Material: Steel Details: Steel, painted (RAL 1021) Packing unit: 1 piece 	Heavy duty sight	2083733
	<ul style="list-style-type: none"> Description: Mounting bracket, heavy-duty version, with protection cover, for floor mounting, adjustable longitudinal and lateral axes via alignment plate, height adjustment possible. Tilt angle $\pm 5^\circ$. Additional mounting brackets are not required. Material: Steel Details: Steel, painted (RAL 1021) Color: RAL 1021 (yellow) Packing unit: 1 piece 	Heavy-duty mounting kit	2080350
	<ul style="list-style-type: none"> Description: Mounting bracket for direct mounting, from the rear, on wall or machine, not adjustable Material: Aluminum Details: Aluminum Packing unit: 1 piece 	Mounting kit 1	2015623
	<ul style="list-style-type: none"> Description: Mounting bracket for rear mounting on wall or machine, adjustable longitudinal and lateral axes, only in conjunction with mounting kit 1 (2015623) Material: Aluminum Details: Aluminum Packing unit: 1 piece 	Mounting kit 2	2015624
	<ul style="list-style-type: none"> Description: 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) Material: Aluminum Details: Aluminum Packing unit: 1 piece 	Mounting kit 3	2015625
connectors and cables			
	<ul style="list-style-type: none"> 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 	DSL-8U04G10M025KM:	6034575
	<ul style="list-style-type: none"> 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 	DSL-8U04G02M025KM:	6034574
	<ul style="list-style-type: none"> Connection type head A: Flying leads Connection type head B: Flying leads Items supplied: By the meter Cable: 2-wire, twisted pair, 120 Ohm, PVC Description: Shielded Note: Fitting for EFI connections 	EFI connecting cable	6029448

	Brief description	Type	part no.
system plugs and extension modules			
	<ul style="list-style-type: none"> • Description: Without cable, For S3000 Standard, Advanced, Remote, Professional and ExpertNot for use of incremental encoders, integrated configuration storage 	SX0A-A0000B	2023797
	<ul style="list-style-type: none"> • Cable: 5 m, 9-wire, PVC • Description: Pre-assembled, unshielded, For S3000 Standard and RemoteNot for use of incremental encoders, integrated configuration storage • Connection systems: Flying leads 	SX0A-B0905B	2027170
	<ul style="list-style-type: none"> • Cable: 5 m, 9-wire, PVC • Description: Pre-assembled, cable connection at the rear, unshielded, For S3000 Standard and RemoteNot for use of incremental encoders, integrated configuration storage • Connection systems: Flying leads 	SX0A-B0905G	2049222
	<ul style="list-style-type: none"> • Cable: 10 m, 9-wire, PVC • Description: Pre-assembled, unshielded, For S3000 Standard and RemoteNot for use of incremental encoders, integrated configuration storage • Connection systems: Flying leads 	SX0A-B0910B	2027171
	<ul style="list-style-type: none"> • Cable: 20 m, 9-wire, PVC • Description: Pre-assembled, unshielded, For S3000 Standard and RemoteNot for use of incremental encoders, integrated configuration storage • Connection systems: Flying leads 	SX0A-B0920B	2027814

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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