



safety laser scanners
S3000 Remote, Sensor head with I/O module

S30A-4011EA



Model Name > [S30A-4011EA](#)
Part No. > [1028938](#)



At a glance

- Can only be used in EFI system network, e.g., with a Flexi Soft safety controller or another safety laser scanner
- 4 m protective field range
- Up to 32 switchable field sets
- Configuration memory integrated in the system plug
- Measured data output via RS-422
- Simultaneous monitoring of up to 4 protective fields
- Contour as reference for vertical applications

Your benefits

- Easy installation, commissioning and maintenance for stationary and mobile applications
- Largest protective field range in the market increases the variety of application possibilities
- Variety of field sets ensures safety and productivity when protecting vehicles or moving machine parts
- Quick recommissioning via configuration memory
- Expandable modular system, simple cabling and additional functions such as the simultaneous monitoring of up to four protective fields using SICK safety controllers with EFI
- Personnel protection and navigation support in one device
- Decades of proven safety technology guarantee maximum reliability and productivity - even under difficult conditions



Applications

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

Functions

- | | |
|---|-------------------|
| Number of simultaneously monitored protective fields: | ≤ 4 ¹⁾ |
| 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:	✓

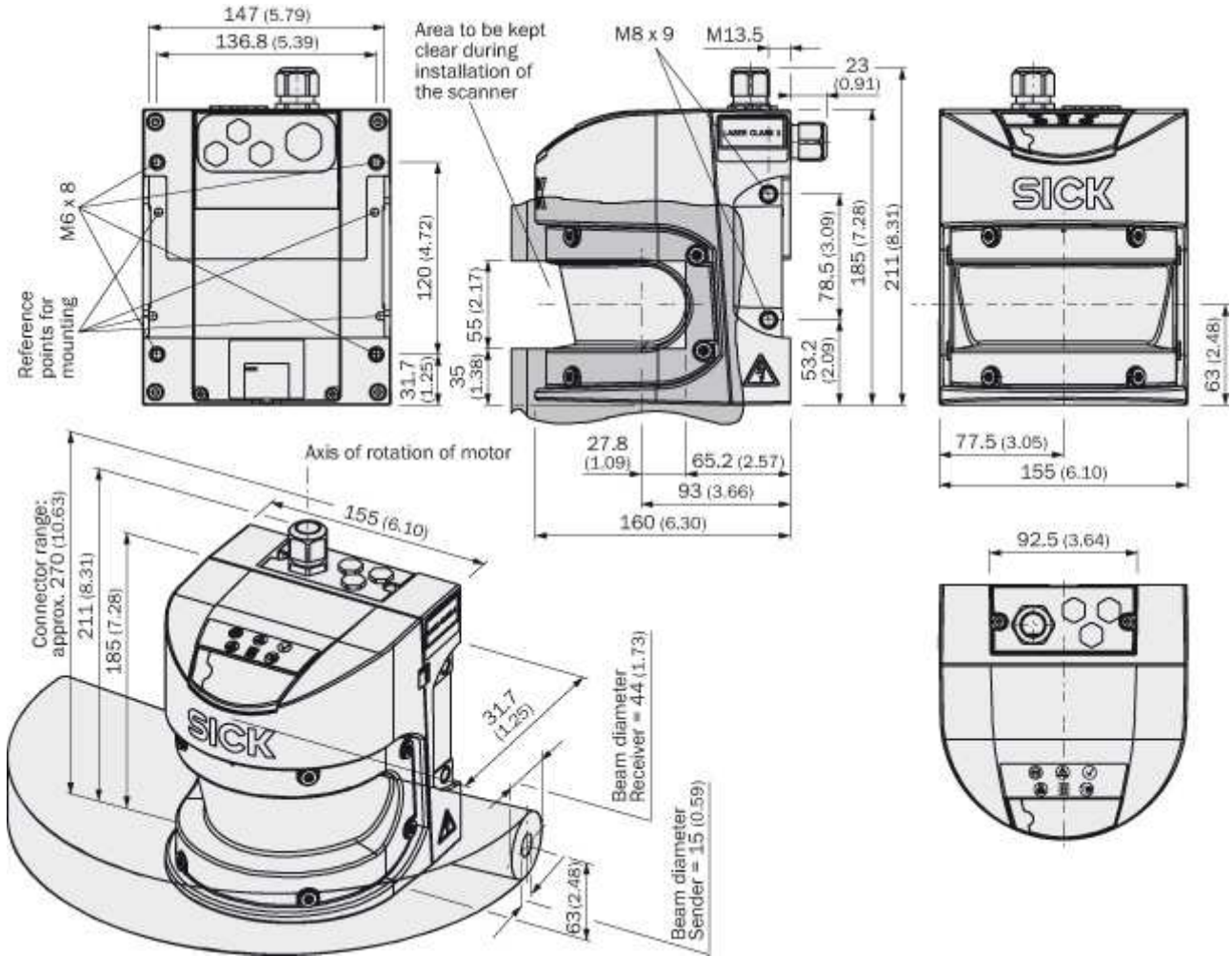
¹⁾ If more than one protective field is monitored simultaneously, then the safe output signals must be routed to safe outputs of a Flexi Soft safety controller, or via a safe EFI gateway.

Technical data

Laser class:	1 (21 CFR 1040.10 and 1040.11, DIN EN 60825:2001)
Enclosure rating:	IP 65 (EN 60529)
Protection class:	II (EN 50178)
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::	32 ^{1) 2)}
Type of field set:	Dual field sets, Triple field sets
Number of monitoring cases:	32 ³⁾
Response time:	60 ms ⁴⁾
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:	System plug with or without connecting cable
Supply voltage:	16.8 V DC, 24 V DC, 28.8 V DC
Number of EDM inputs:	1
Number of reset-/restart inputs:	1
Number of static control inputs with EFI:	5 ⁵⁾
Number of safe outputs:	2, Safety outputs (OSSD)
Number of application diagnostic outputs:	3 ⁶⁾
Maximum output current:	500 mA
Configuration and diagnostics interface:	RS-232
Data interface:	RS-422

¹⁾ In dual field mode 32, in triple field mode 21 field sets ^{2) 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 ⁵⁾ Can only be used in EFI system network, e.g., with a Flexi Soft safety controller or another S300 or S3000 safety laser scanner ⁶⁾ Freely programmable, e.g., warning field, contamination, reset required

Dimensional drawing



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