

ONLINE DATA SHEET
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safety laser scanners
S3000 Professional, Sensor head with I/O module

S30A-4011DA



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Sensor Intelligence.

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Model Name > S30A-4011DA
Part No. > 1028936

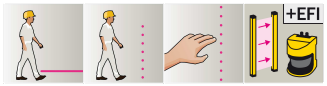


At a glance

- 4 m protective field range
- 8 switchable field sets
- Configuration memory integrated in the system plug
- EFI interface for safe SICK device communication
- Incremental encoder inputs for speed-dependent field switching
- Measured data output via RS-422
- Simultaneous monitoring of up to 4 protective fields
- Monitoring of the maximum speed of an AGV

Your benefits

- 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
- The correct protective field at any speed avoids unnecessary stops.
- Personnel protection and navigation support in one device
- Easy installation, commissioning and maintenance for stationary and mobile applications
- 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):	✓

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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.

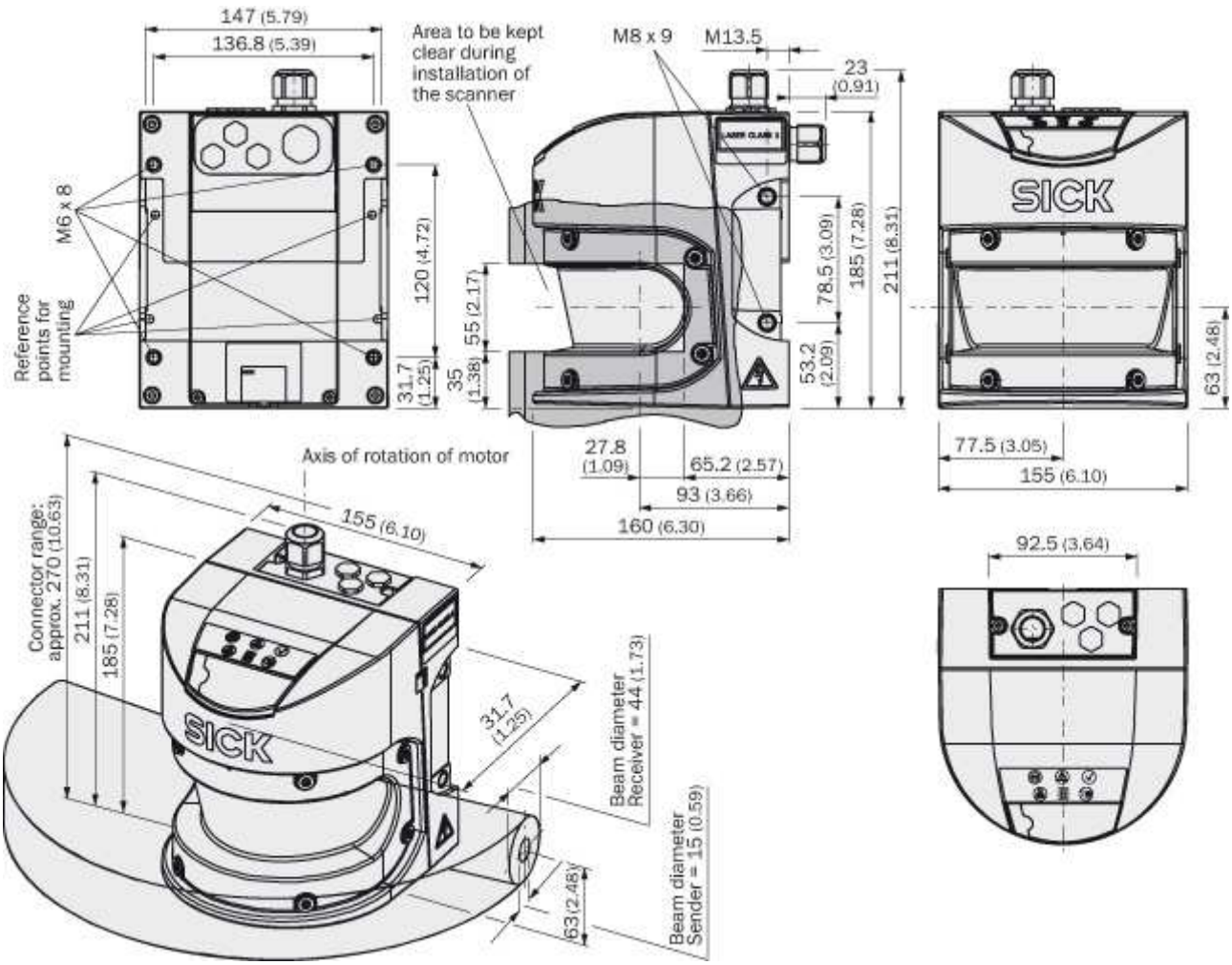
Technical data

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:	8
Type of field set:	Dual field sets, Triple field sets
Number of monitoring cases:	16
Response time:	60 ms [1]
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:	4
Number of static control inputs with EFI:	5 [2]
Number of dynamic control inputs:	2 [3]
Number of safe outputs:	2, Safety outputs (OSSD)
Number of application diagnostic outputs:	3 [4]
Maximum output current:	500 mA
Configuration and diagnostics interface:	RS-232
Data interface:	RS-422

[1] Depending on basic response time and multiple sampling [2] In combination with an EFI device (Flexi Soft or EFI gateway) five static control inputs are available. Otherwise four. [3] Two of the static swichting signals can be used either as dynamic or as static switching signals. [4] Freely programmable, e.g., warning field, contamination, reset required

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Dimensional drawing



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