



safety laser scanners
S300 Expert, Laser scanner

S30B-3011GB



Model Name > [S30B-3011GB](#)
Part No. > [1057641](#)



At a glance

- Compact design
- 3 m protective field range
- 270° scan angle
- 16 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
- Extended measured data output via RS-422 with landmark recognition

Your benefits

- Simple integration due to compact design
- Unbeatable cost-effectiveness - 270° scan angle allows complete application protection with only two scanners
- Easy installation, commissioning and maintenance for stationary and mobile applications
- Variety of field sets ensures safety and productivity when protecting vehicles or moving machine parts
- Quick recommissioning via configuration memory
- Easy modular expansions, simple cabling and additional functions using SICK safety controllers with EFI
- The correct protective field at any speed avoids unnecessary stops.
- Personnel protection and navigation support in one device



Applications

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

Functions

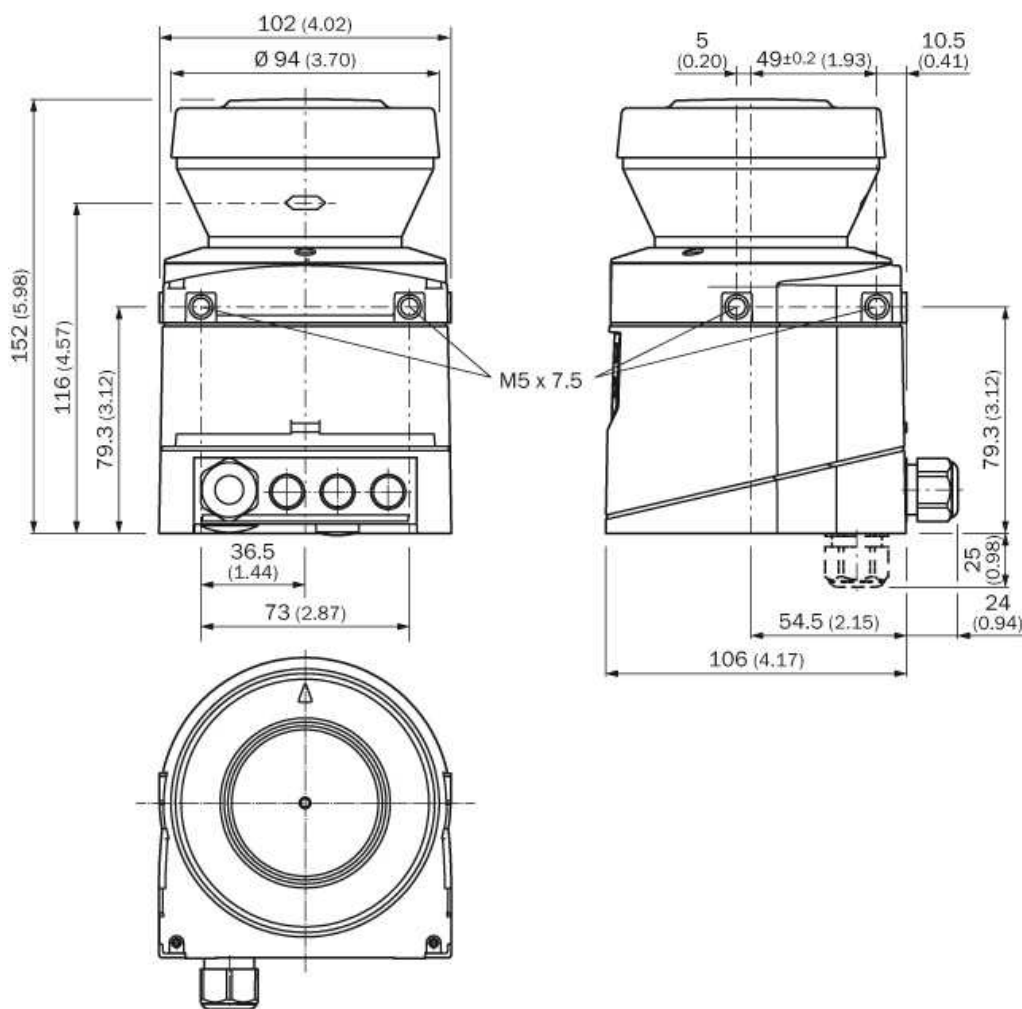
Static protective field switching:	✓
Incremental encoder inputs:	✓
External device monitoring (EDM):	✓
Integrated configuration memory:	✓
Expanded measured data output (CMS):	✓
Measured data output:	✓

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 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):	102 mm x 152 mm x 106 mm
Weight:	1.2 kg
Scan angle:	270 °
Protective field range:	3 m
Maximum warning field range:	8 m
Number of field sets:	16
Type of field set:	Triple field sets
Number of monitoring cases:	32
Response time:	80 ms ¹⁾
Resolution:	30 mm, 40 mm, 50 mm, 70 mm, 150 mm, configurable
Distance measuring range:	30 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, 30 V DC
Number of universal I/Os:	5 ²⁾
Number of EDM inputs:	1 ³⁾
Number of reset-/restart inputs:	1 ⁴⁾
Number of static control inputs:	3 ⁵⁾
Number of static control inputs with EFI:	5 ⁶⁾
Number of dynamic control inputs:	2 ⁷⁾
Number of stand-by inputs:	1
Number of safe outputs:	2, Safety outputs (OSSD)
Number of application diagnostic outputs:	3 ⁸⁾
Maximum output current:	250 mA
Configuration and diagnostics interface:	RS-232
Data interface:	RS-422

¹⁾ Depending on basic response time and multiple sampling ²⁾ Freely programmable, e.g., input external device monitoring, input reset, contamination warning, reset required ^{3) 4)} Availability depends on the configuration of the universal I/Os ⁵⁾ 2+1; additional input only available if reset and reset required are not used. ⁶⁾ In combination with an EFI device (Flexi Soft or EFI gateway) five static control inputs are available. Otherwise three. ⁷⁾ Two of the static switching signals can be used either as dynamic or as static switching signals. ⁸⁾ Freely programmable, e.g., warning field, contamination, reset required

Dimensional drawing



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