



Safety laser scanners
S3000 Standard, Sensor head with I/O module

S30A-4011BA



Model Name > **S30A-4011BA**
Part No. > **1028934**



At a glance

- Modular, exchangeable components
- Protective field range of 4 m, 5.5 m or 7 m
- Configuration memory
- Selectable resolutions
- Vertical and horizontal safeguarding
- 7-segment display
- External device monitoring (EDM) is Integrated

Your benefits

- Easy installation and commissioning in a wide range of stationary and mobile applications
- Largest protective field range on the market increases application opportunities
- Fast commissioning after device replacement due to configuration memory stored in system plug
- Integration of safety laser scanners and control systems provides complete vehicle safeguarding - all from one source
- Safety laser scanner does not affect production throughput
- Decades of proven safety technology ensures maximum reliability and machine availability - even in harsh environments



Applications

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

Functions

- | | |
|--|---|
| Simultaneous monitoring of two areas: | ✓ |
| Static control outputs for switching between warning fields: | - |
| Incremental encoder inputs: | - |
| External device monitoring: | ✓ |
| Integrated configuration memory: | ✓ |
| Reflector mark detection: | - |
| Expanded measured data output: | - |
| Safe device communication via EFI/SDL: | ✓ |

Technical data

Laser protection 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/EN 61496-3)
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
TM (Mission Time):	20 a
Ambient operating temperature from ... to:	-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:	1
Response time:	60 ms, 120 ms ¹⁾
Resolution:	30 mm, 40 mm, 50 mm, 70 mm, 150 mm, selectable
Distance measuring range:	49 m
Number of multiple samplings:	Configurable via CDS 2 ... 16
Electrical connection:	Plug-in connection housing with screw, Screw-type terminals
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 safe outputs:	2, Safety outputs (OSSD)
Number of warning field outputs:	1
Number of application diagnostic outputs:	1
Maximum output current:	500 mA
Configuration and diagnostics interface:	RS-232
Data interface:	RS-422

¹⁾ Depending on basic response time and multiple sampling

Dimensional drawing

