



## Safety laser scanners S300 Mini Standard, Laser scanner

S32B-2011BA



**Model Name** > [S32B-2011BA](#)  
**Part No.** > [1050932](#)



#### At a glance

- Very compact design
- 2 m protective field range
- 270° scan angle
- One field set (one protective field, two warning fields)
- Selectable resolution for hand, leg or body detection
- Contour as reference for vertical applications
- Integrated external device monitoring (EDM)
- Easy-to-configure fields and functions

#### Your benefits

- Simple integration due to ultracompact design
- Easy installation, commissioning and maintenance for stationary and mobile applications
- Unbeatable cost-effectiveness - 270° scan angle allows complete application protection with only two scanners
- Safety engineering - with no loss of productivity
- Decades of proven safety technology guarantee maximum reliability and availability – even under difficult conditions
- Easy to manage, reducing costs and work time
- Reduction of downtime and brake wear thanks to triple field function
- Simple alignment and safe operation in vertical mode



#### Applications

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

#### Functions

|                                                        |   |
|--------------------------------------------------------|---|
| Static control outputs for protective field switching: | - |
| Incremental encoder inputs:                            | - |
| External device monitoring (EDM):                      | ✓ |
| Integrated configuration memory:                       | - |
| Expanded measured data output (CMS, RS-422):           | - |
| Measured data output (RS-422):                         | - |
| Safe device communication via EFI/SDL:                 | - |

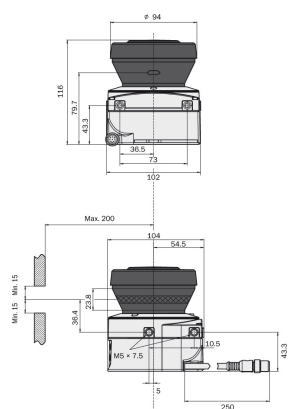
## Technical data

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|                                            |                                                   |
|--------------------------------------------|---------------------------------------------------|
| Laser protection 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 (EN 61496-1)                               |
| 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 from ... to: | -10 °C ... 50 °C                                  |
| Dimensions (W x H x D):                    | 102 mm x 116 mm x 105 mm                          |
| Weight:                                    | 0.8 kg, without connecting cables                 |
| Scan angle:                                | 270 °                                             |
| Protective field range:                    | 2 m                                               |
| Maximum warning field range:               | 8 m                                               |
| Number of field sets:                      | 1 <sup>1)</sup>                                   |
| Response time:                             | 80 ms <sup>2)</sup>                               |
| Resolution:                                | 30 mm, 40 mm, 50 mm, 70 mm, selectable            |
| Distance measuring range:                  | 30 m                                              |
| Number of multiple samplings:              | Configurable via CDS 2 ... 16                     |
| Electrical connection:                     | Cable, 250 mm, with male connector M12, 8-pin     |
| Supply voltage:                            | 16.8 V DC, 24 V DC, 30 V DC                       |
| Number of universal I/Os:                  | 2                                                 |
| Number of EDM inputs:                      | 1 <sup>3)</sup>                                   |
| Number of reset-/restart inputs:           | 1 <sup>4)</sup>                                   |
| Number of stand-by inputs:                 | 1 <sup>5)</sup>                                   |
| Number of safe outputs:                    | 2, Safety outputs (OSSD)                          |
| Number of warning field outputs:           | 2 <sup>6)</sup>                                   |
| Configuration and diagnostics interface:   | RS-232                                            |

<sup>1)</sup> 1 field set = 1 protective field and 2 warning fields    <sup>2)</sup> Depending on basic response time and multiple sampling    <sup>3)</sup> <sup>4)</sup> <sup>5)</sup> <sup>6)</sup> Availability depends on the configuration of the universal I/Os

### Dimensional drawing



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