



# **SSP**

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## Safety System Products

### **EOS4 309 AH**

**Safety light curtain for body detection with automatic restart,  
Increased range**

### **Your advantages**

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**we simplify safety**

## EOS4 309 AH

### General data

|                  |                                                                                 |
|------------------|---------------------------------------------------------------------------------|
| Item number      | SP-R-13-105-51                                                                  |
| Type designation | EOS4 309 AH                                                                     |
| Functional type  | Safety light curtain for body detection with automatic restart, Increased range |
| Number of beams  | 4                                                                               |
| Signalling       | LEDs for status and diagnostics of the light curtain                            |
| Detection        | Body                                                                            |

### Safety data

|                                          |                                                                                                                                     |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| MTTFd (ISO 13849-1) years                | 570.6                                                                                                                               |
| SIL (acc. IEC 62061)                     | Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4                                                                                            |
| PFHd (EN ISO 13849)                      | 1.04E-08                                                                                                                            |
| Approvals                                | CE; TÜV SUD; UL Listed ESPE; S Mark - Korea; TS - Taiwan; WEEE; Insulation Class; Low Voltage; China RoHs; IP65 - IP67; IP69K; UKCA |
| Performance Level (EN ISO 13849-1: 2015) | Type 4 - PL e                                                                                                                       |
| Safety functions                         | With external module                                                                                                                |

### Environmental conditions

|                            |                |
|----------------------------|----------------|
| Max. operating temperature | - 20 ... 55 °C |
| Protective covers          | None           |
| Protection class           | IP65 - IP67    |

### Electrical data

|                    |                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------|
| Response times     | 2.5                                                                                                      |
| Safety output type | 2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and polarity reversal |
| Safety outputs     | 2 OSSD PNP (400 mA at 24 VDC)                                                                            |

### Mechanical data

|                       |     |
|-----------------------|-----|
| Protected height (mm) | 310 |
|-----------------------|-----|

### EOS4 309 AH

|                                     |                                                                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Resolution (mm)                     | 90                                                                                                                                     |
| Controlled height (mm)              | 300                                                                                                                                    |
| Max. Range (m)                      | 20                                                                                                                                     |
| Restart                             | Automatic                                                                                                                              |
| Total height (mm)                   | 386.5                                                                                                                                  |
| Cross-sectional dimensions (mm)     | 28 x 30                                                                                                                                |
| Mounting                            | Rear slot with a set of LE brackets (included in the scope of delivery) or at the top and bottom with SFB E swivel brackets (optional) |
| Max. Length of connection cable (m) | 100                                                                                                                                    |
| Connections                         | M12 5-pin connectors                                                                                                                   |
| Packaging dimensions HxLxW (mm)     | 145 x 390 x 200                                                                                                                        |
| Gross weight (g)                    | 1464.46                                                                                                                                |

#### Equipment

| Accessories                       |      |                |                                                                                       |
|-----------------------------------|------|----------------|---------------------------------------------------------------------------------------|
| M12-female connector, 5 pin, 10 m | CD10 | SP-R-13-309-56 |  |
| M12-female connector, 5 pin, 15 m | CD15 | SP-R-13-309-52 |  |
| M12-female connector, 5 pin, 20 m | CD20 | SP-R-13-309-57 |  |
| M12-female connector, 5 pin, 25 m | CD25 | SP-R-13-309-49 |  |

## EOS4 309 AH

M12-female connector, 5 pin, 5 m

CD5

SP-R-13-309-50



M12-female connector, 5 pin, 50 m

CD50

SP-R-13-309-65



### Downloads