



# SSP

Safety System Products

## EOS2 603 X

Safety light curtain for hand detection with automatic/manual restart and EDM

Your advantages

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we simplify safety

## EOS2 603 X

### General data

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| Item number      | SP-R-13-202-13                                                                |
| Type designation | EOS2 603 X                                                                    |
| Functional type  | Safety light curtain for hand detection with automatic/manual restart and EDM |
| Number of beams  | 31                                                                            |
| Signalling       | LEDs for status and diagnostics of the light curtain                          |
| Detection        | Hand                                                                          |

### Safety data

|                                          |                                                                                                             |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| SIL (acc. IEC 62061)                     | Typ 2 - SIL 1 - SILCL 1 - PL c - Cat. 2                                                                     |
| MTTFd (ISO 13849-1) years                | 269.6                                                                                                       |
| PFHd (EN ISO 13849)                      | 3.93E-08                                                                                                    |
| Approvals                                | CE; TÜV SUD; UL Listed ESPE; TS - Taiwan; WEEE, insulation class low voltage; China RoHs; IP65 - IP67; UKCA |
| Performance Level (EN ISO 13849-1: 2015) | Typ 2 - PL c                                                                                                |
| Safety functions                         | Integrated                                                                                                  |

### Environmental conditions

|                            |                |
|----------------------------|----------------|
| Max. operating temperature | - 30 ... 55 °C |
| Protective covers          | None           |

### Electrical data

|                    |                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------|
| Response times     | 10                                                                                                       |
| Max. voltage (VDC) | 24 ± 20%                                                                                                 |
| 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) | 610 |
|-----------------------|-----|

### EOS2 603 X

|                                     |                                                                                                                       |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Resolution (mm)                     | 30                                                                                                                    |
| Controlled height (mm)              | 600                                                                                                                   |
| Max. Range (m)                      | 12                                                                                                                    |
| Restart                             | Built-in - user selectable automatic or manual                                                                        |
| Total height (mm)                   | 663                                                                                                                   |
| Cross-sectional dimensions (mm)     | 28 x 30                                                                                                               |
| Mounting                            | Back slot with LE-type brackets (included in delivery) or at the top and bottom with SFB E swivel brackets (optional) |
| Max. Length of connection cable (m) | 100 (50 between master and slave)                                                                                     |
| Connections                         | M12 5-pole connector (emitter), M12 8-pole connector (receiver)                                                       |
| Packaging dimensions HxLxW (mm)     | 145 x 690 x 200                                                                                                       |
| Gross weight (g)                    | 2209.46                                                                                                               |

#### Equipment

##### Accessories

|                                   |       |                |                                                                                       |
|-----------------------------------|-------|----------------|---------------------------------------------------------------------------------------|
| M12-female connector, 8 pin, 10 m | C8D10 | SP-R-13-309-81 |  |
| M12-female connector, 8 pin, 15 m | C8D15 | SP-R-13-309-82 |  |
| M12-female connector, 8 pin, 25 m | C8D25 | SP-R-13-309-67 |  |
| M12-female connector, 8 pin, 40 m | C8D40 | SP-R-13-309-66 |  |

### EOS2 603 X

|                                   |      |                |                                                                                       |
|-----------------------------------|------|----------------|---------------------------------------------------------------------------------------|
| M12-female connector, 8 pin, 5 m  | C8D5 | SP-R-13-309-80 |    |
| 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 |  |
| 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 |  |

## EOS2 603 X

### Downloads

- EOS2 603 X