# SG4-30IE165C1
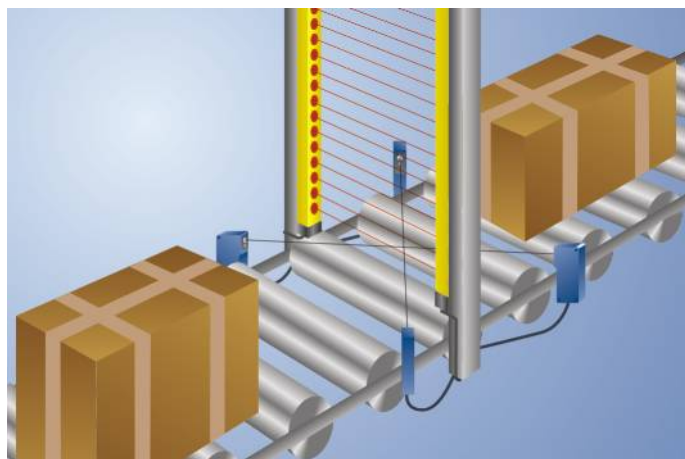
Part Number



- **Completely integrated electronics**
- **Fix blanking, floating blanking and reduced resolution, cascading, muting**
- **Serial interface**

These safety light curtains are distinguished by their compact design. They are also equipped with numerous auxiliary functions, allowing for adaptation to the respective application in a highly individualized fashion. The adequate mounting angle BEF-SET-33 is included in the delivery.



## Technical Data

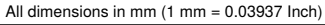| Optical Data | |
|---|---|
| Range | 0,5...20 m |
| Safety Field Height (SFH) | 1680 mm |
| Resolution | 30 mm |
| Light Source | Red Light |
| Opening Angle | ± 2,5 ° |
| **Electrical Data** | |
| Sensor Type | Receiver |
| Supply Voltage | 24 V DC |
| Current Consumption (Ub = 24 V) | 300 mA |
| Response Time | 25,8 ms |
| Temperature Range | -20...50 °C |
| Storage temperature | -25...70 °C |
| No. Safety Outputs (OSSDs) | 2 |
| Safety Output Voltage Drop | < 2,5 V |
| PNP Safety Output/Switching Current | 300 mA |
| Number of Signal Outputs | 1 |
| Signal Output Voltage Drop | < 2,5 V |
| Signal Output/Switching Current | 200 mA |
| Short Circuit and Overload Protection | yes |
| Reverse Polarity Protection | yes |
| Interface | RS-485 |
| Protection Class | III |
| **Mechanical Data** | |
| Housing Material | Aluminum |
| Disc Material | Polycarbonate |
| Degree of Protection | IP67 |
| Connection | M12 × 1; 8-pin |
| **Safety-relevant Data** | |
| ESPE Type (EN 61496) | 4 |
| Safety Category (EN ISO 13849-1) | 4 |
| Performance Level (EN ISO 13849-1) | PL e |
| PFHD | 3,08 × E-8 1/h |
| Mission Time TM (EN ISO 13849-1) | 20 a |
| **Function** | |
| Hand Protection | yes |
| Restart Inhibit | yes |
| Contactor Monitoring | yes |
| Cascading | yes |
| Fix Blanking | yes |
| Floating Blanking | yes |
| Reduced Resolution | yes |
| Serial Communication | yes |
| Connection Table No. | 28 |
| Control Panel No. | S4 |
| Suitable Connection Equipment No. | 88 88s |
| Suitable Mounting Technology No. | 700 |
| Suitable Serial Interface Plug No. | 11 |

### Suitable Emitter

SG4-30IS165C1

### Complementary Products

| |
|---|
| Laser Alignment Tool SZ0-LAH1 |
| Muting Indicator SM0-00CA000C1 |
| Path-Folding Mirror Z2UG004 |
| Protection Column with Path-Folding Mirror SZ000EU215NN01 |
| Protection Column with Protective Screen SZ000EG215NN01 |
| Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S |
| Software |
| Software wsafe |

1 = Emitter
2 = Receiver
All dimensions in mm (1 mm = 0.03937 Inch)

## Ctrl. Panel

S4



03 = Error Indicator
20 = Enter Button
52 = OSSD ON
53 = OSSD OFF
55 = Blanking
56 = Dip-Switch
60 = Display