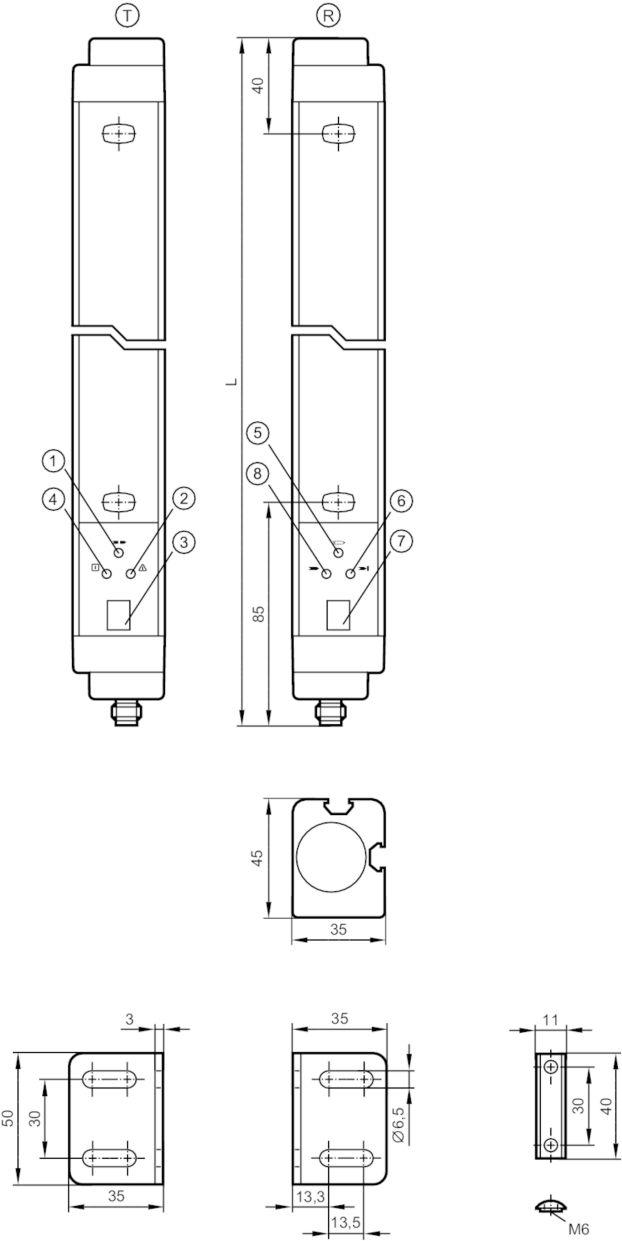




Safety light curtain

OYA0760-40-4-18-P-1-B

For 8-pole sockets the core colours are not standardised.  
Please note the wiring of the sensor and the sockets (see data sheet).



- T transmitter
- R receiver
- 1 LED yellow
- 2 LED red
- 3 7-segment LED display
- 4 LED green
- 5 LED yellow
- 6 LED red
- 7 7-segment LCD display
- 8 LED green



Product characteristics

Type of light

infrared light



## Safety light curtain

OYA0760-40-4-18-P-1-B

|                                                  |                                                |  |
|--------------------------------------------------|------------------------------------------------|--|
| Electrical design                                | PNP                                            |  |
| Protection                                       | IP 65                                          |  |
| Application                                      |                                                |  |
| Protective function                              | access prevention hand protection              |  |
| Electrical data                                  |                                                |  |
| Operating voltage tolerance [%]                  | 20                                             |  |
| Operating voltage [V]                            | 24 DC                                          |  |
| Protection class                                 | III                                            |  |
| Reverse polarity protection                      | yes                                            |  |
| Power-on delay time [s]                          | < 18                                           |  |
| Type of light                                    | infrared light                                 |  |
| Wave length [nm]                                 | 950                                            |  |
| Receiver                                         |                                                |  |
| Current consumption [mA]                         | 125                                            |  |
| Transmitter                                      |                                                |  |
| Current consumption [mA]                         | 83                                             |  |
| Outputs                                          |                                                |  |
| Electrical design                                | PNP                                            |  |
| Number of OSSD outputs                           | 2                                              |  |
| Max. current load per OSSD output [mA]           | 500; (24 V)                                    |  |
| Short-circuit protection                         | yes                                            |  |
| Detection zone                                   |                                                |  |
| Protected area height [mm]                       | 760                                            |  |
| Resolution (detection capacity d) [mm]           | 40                                             |  |
| Protection area width (low light intensity) [m]  | 0...6                                          |  |
| Protection area width (high light intensity) [m] | 3...18                                         |  |
| Floating blanking                                | yes                                            |  |
| Response times                                   |                                                |  |
| Response time [ms]                               | 9.5                                            |  |
| Operating conditions                             |                                                |  |
| Applications                                     | class C to EN 60654-1 weatherproof application |  |
| Ambient temperature [°C]                         | 0...55                                         |  |
| Max. relative air humidity [%]                   | 95                                             |  |
| Protection                                       | IP 65                                          |  |
| Tests / approvals                                |                                                |  |
| EMC                                              | IEC 61496-1                                    |  |
| Shock resistance                                 | IEC 61496-1                                    |  |
| Vibration resistance                             | IEC 61496-1                                    |  |
| Safety classification                            |                                                |  |
| ESPE type (IEC 61496-1)                          | 4                                              |  |



## Safety light curtain

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|                                |       |                                    |
|--------------------------------|-------|------------------------------------|
| Complies with the requirements |       | ISO 13849-1: 2015 category 4, PL e |
|                                |       | IEC 61508 SIL 3                    |
|                                |       | IEC 62061 SIL 3                    |
| Mission time TM                | [h]   | 175200                             |
| PFH                            | [1/h] | 1,2E-08                            |

## Mechanical data

|            |      |                                    |
|------------|------|------------------------------------|
| Weight     | [g]  | 4800                               |
| Dimensions | [mm] | 861 x 35 x 45                      |
| Materials  |      | housing: aluminium; front pane: PC |
| Length L   | [mm] | 861                                |

## Displays / operating elements

|         |             |                       |
|---------|-------------|-----------------------|
| Display | transmitter | 3 x LED               |
|         | transmitter | 7-segment LCD display |
|         | receiver    | 3 x LED               |
|         | receiver    | 7-segment LCD display |

## Accessories

|                |                     |
|----------------|---------------------|
| Items supplied | mounting bracket: 4 |
|                | slot nuts: 4        |
|                | screws              |

## Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

## Electrical connection - receiver

Connector: 1 x M12; coding: A; Maximum cable length: 100 m; for wire cross-section 0.34 mm²



## Safety light curtain

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### Connection



### Electrical connection - transmitter

Connector: 1 x M12; coding: A



### Connection

