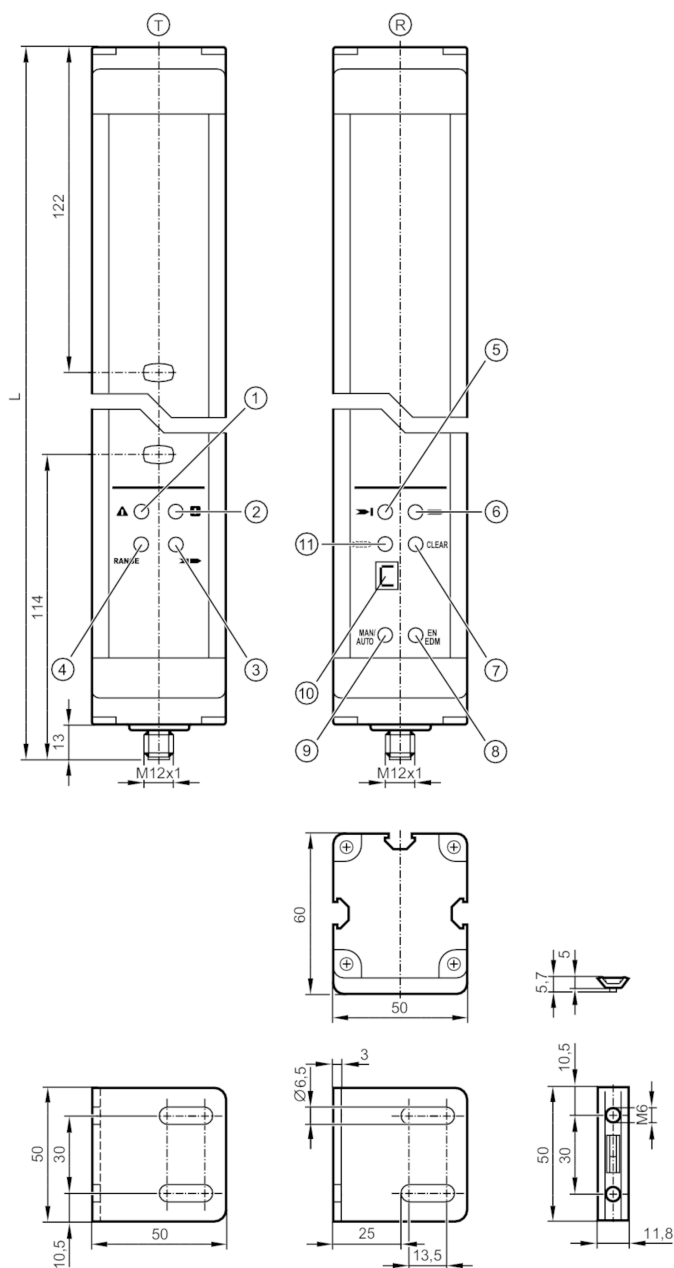




- T transmitter
- R receiver
- 1 LED red
- 2 LED green
- 3 LED yellow
- 4 LED orange
- 5 LED red
- 6 LED green
- 7 LED yellow
- 8 LED yellow
- 9 LED yellow
- 10 display
- 11 LED orange



### Application

Protective function

access prevention body protection



## safety light grids

OYA0810-03-4-60-P-1

| Electrical data                              |             |                                                |
|----------------------------------------------|-------------|------------------------------------------------|
| Operating voltage tolerance                  | [%]         | 20                                             |
| Operating voltage                            | [V]         | 24 DC                                          |
| Protection class                             |             | III                                            |
| Reverse polarity protection                  |             | yes                                            |
| Power-on delay time                          | [s]         | < 10                                           |
| Type of light                                |             | infrared light                                 |
| Wave length                                  | [nm]        | 950                                            |
| receiver                                     |             |                                                |
| Current consumption                          | [mA]        | 250                                            |
| transmitter                                  |             |                                                |
| Current consumption                          | [mA]        | 125                                            |
| 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]        | 810                                            |
| Number of beams                              |             | 3                                              |
| Protection area width (low light intensity)  | [m]         | 8...30                                         |
| Protection area width (high light intensity) | [m]         | 18...60                                        |
| Response times                               |             |                                                |
| Response time                                | [ms]        | 7                                              |
| Operating conditions                         |             |                                                |
| Applications                                 |             | class C to EN 60654-1 weatherproof application |
| Ambient temperature                          | [°C]        | -10...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                        |             |                                                |
| ISO 13849-1                                  |             | category: 4, PL: e                             |
| IEC 61508                                    |             | SIL 3                                          |
| IEC 62061                                    |             | SILCL 3                                        |
| Mission time TM                              | [h]         | 175200                                         |
| Safety-related reliability PFHD              | [1/h]       | 7.7E-09                                        |

# OY952S

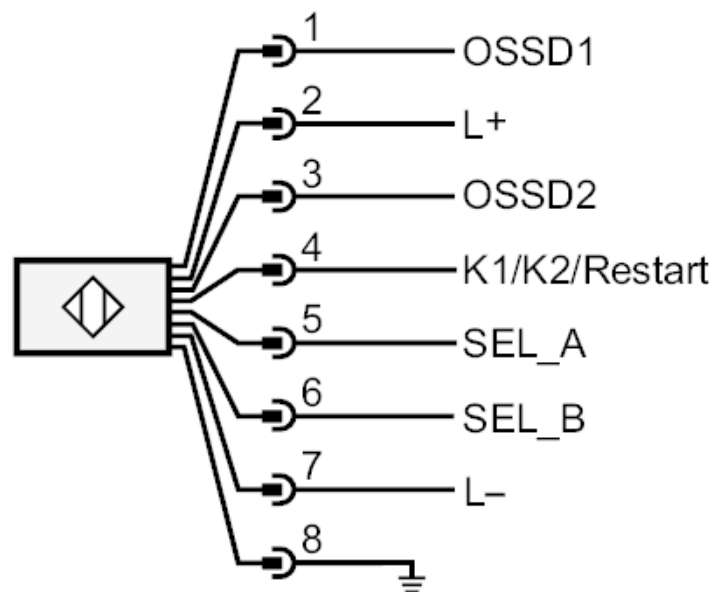


## safety light grids

OYA0810-03-4-60-P-1

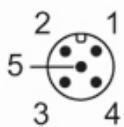
| Mechanical data                                                                     |                                                                                                                                   |                                    |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Weight                                                                              | [g]                                                                                                                               | 7040                               |
| Dimensions                                                                          | [mm]                                                                                                                              | 1036 x 50 x 60                     |
| Materials                                                                           |                                                                                                                                   | housing: aluminium; front lens: PC |
| Length L                                                                            | [mm]                                                                                                                              | 1036                               |
| Displays / operating elements                                                       |                                                                                                                                   |                                    |
| Display                                                                             | transmitter                                                                                                                       | 4 LED                              |
|                                                                                     | receiver                                                                                                                          | 6 LED                              |
|                                                                                     | receiver                                                                                                                          | 1 LC display                       |
| Accessories                                                                         |                                                                                                                                   |                                    |
| Accessories (supplied)                                                              | mounting bracket: 6                                                                                                               |                                    |
|                                                                                     | slot nuts: 6                                                                                                                      |                                    |
| Remarks                                                                             |                                                                                                                                   |                                    |
| Notes                                                                               | For 8-pole sockets the core colours are not standardised.; Please note the wiring of the sensor and the sockets (see data sheet). |                                    |
| Pack quantity                                                                       | 1 pcs.                                                                                                                            |                                    |
| Electrical connection - receiver                                                    |                                                                                                                                   |                                    |
| Connector: 1 x M12; Maximum cable length: 100 m; for wire cross-section 1 mm²       |                                                                                                                                   |                                    |
|  |                                                                                                                                   |                                    |

### Connection



### Electrical connection - transmitter

Connector: 1 x M12



# OY952S

## safety light grids

OYA0810-03-4-60-P-1



### Connection

