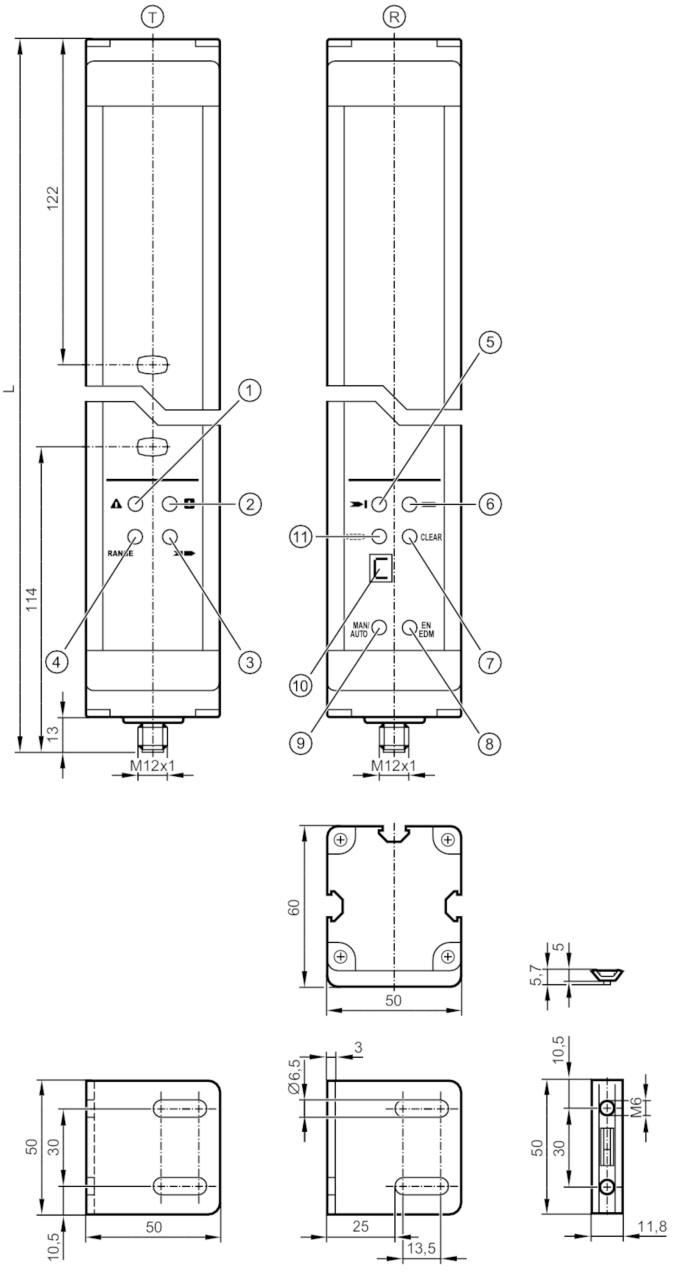
# OY952S

## Safety light grids

OYA0810-03-4-60-P-1

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 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 |

# OY952S

## Safety light grids

OYA0810-03-4-60-P-1

| | | |
|---|---|---|
| **Product characteristics** | | |
| Type of light | | infrared light |
| Electrical design | | PNP |
| Protection | | IP 65 |
| **Application** | | |
| Protective function | | access prevention body protection |
| **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** | | |
| ESPE type (IEC 61496-1) | | 4 |

# OY952S

## Safety light grids

OYA0810-03-4-60-P-1

| | | |
|---|---|---|
| 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] | 7,7E-09 |

### Mechanical data

| | | |
|---|---|---|
| Weight | [g] | 6910 |
| Dimensions | [mm] | 1036 x 50 x 60 |
| Materials | | housing: aluminium; front pane: PC |
| Length L | [mm] | 1036 |

### Displays / operating elements

| | | |
|---|---|---|
| Display | transmitter | 4 x LED |
| | receiver | 6 x LED |
| | receiver | LC display |

### Accessories

| | |
|---|---|
| Items supplied | mounting bracket: 6 |
| | slot nuts: 6 |

### Remarks

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

### Electrical connection - receiver

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

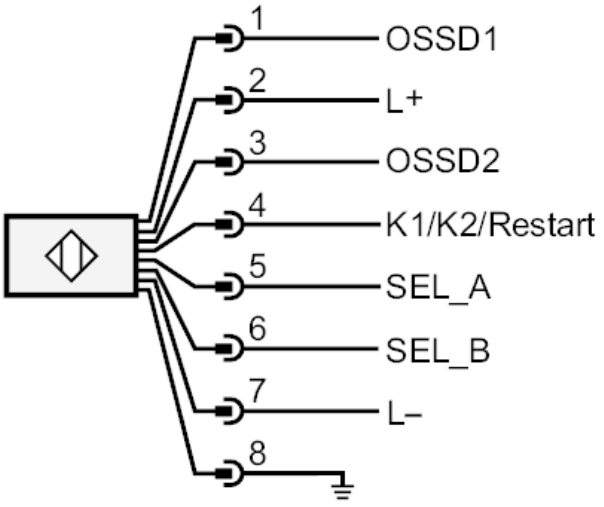


# OY952S

## Safety light grids

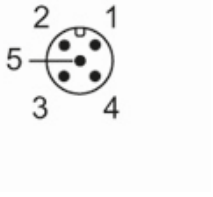
OYA0810-03-4-60-P-1

### Connection




### Electrical connection - transmitter

Connector: 1 x M12; coding: A




### Connection

