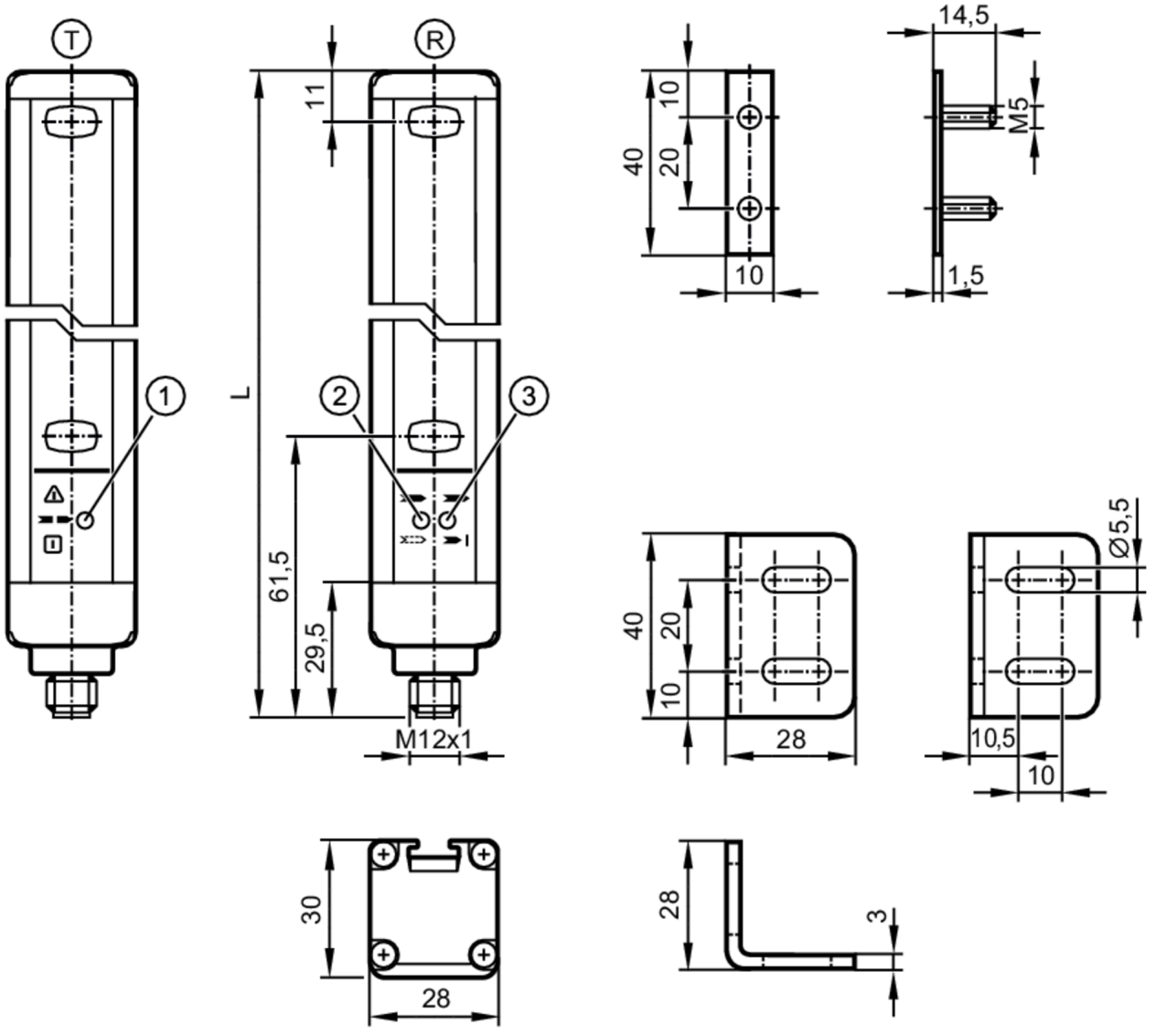
# OY225S

## Safety light curtain

OYA0760-20-4-20-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 three-colour red / green / orange
2 LED 2-colour yellow/blue
3 LED 2-colour red/green

| Product characteristics | |
|---|---|
| Type of light | infrared light |
| Electrical design | PNP |
| Protection | IP 65; IP 67 |
| **Application** | |
| Protective function | access prevention hand protection |

# OY225S

## Safety light curtain

OYA0760-20-4-20-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] | < 2 | |
| Type of light | | infrared light | |
| Wave length | [nm] | 950 | |
| Receiver | | | |
| Current consumption | [mA] | 83 | |
| Transmitter | | | |
| Current consumption | [mA] | 42 | |
| **Outputs** | | | |
| Electrical design | | PNP | |
| Number of OSSD outputs | | 2 | |
| Max. current load per OSSD output | [mA] | 400;  (24 V) | |
| Short-circuit protection | | yes | |
| **Detection zone** | | | |
| Protected area height | [mm] | 760 | |
| Resolution (detection capacity d) | [mm] | 20 | |
| Protection area width (low light intensity) | [m] | 0...10 | |
| Protection area width (high light intensity) | [m] | 3...20 | |
| **Response times** | | | |
| Response time | [ms] | 11 | |
| **Operating conditions** | | | |
| Applications | | class C to EN 60654-1 weatherproof application | |
| Ambient temperature | [°C] | -10...55 | |
| Max. relative air humidity | [%] | 95 | |
| Protection | | IP 65; IP 67 | |
| **Tests / approvals** | | | |
| EMC | | IEC 61496-1 | |
| Shock resistance | | IEC 61496-1 | |
| Vibration resistance | | IEC 61496-1 | |
| **Safety classification** | | | |
| ESPE type (IEC 61496-1) | | 4 | |
| 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] | 2,0E-08 | |

# OY225S

## Safety light curtain

OYA0760-20-4-20-P-1

| Mechanical data | | |
|---|---|---|
| Weight | [g] | 2975 |
| Dimensions | [mm] | 813 x 28 x 30 |
| Materials | | housing: aluminium; front pane: PC |
| Length L | [mm] | 813 |

| Displays / operating elements | |
|---|---|
| Display | LED, yellow |
| | LED, green |
| | LED, red |
| | LED, blue |
| | LED, orange |

| Accessories | |
|---|---|
| Items supplied | mounting bracket: 4 |
| | slot nuts: 4 |
| | Nuts |

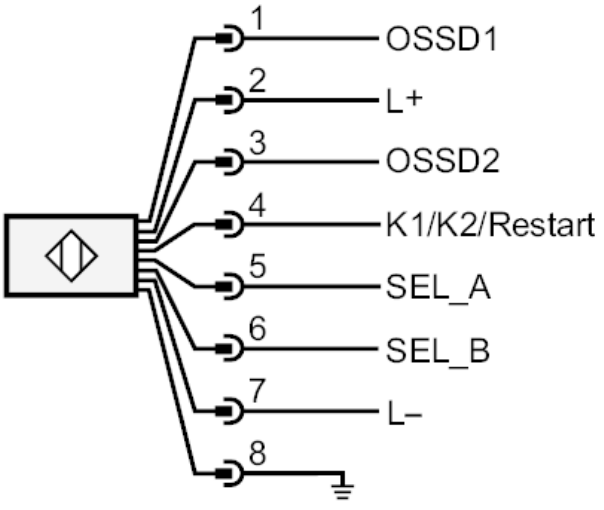
| Remarks | |
|---|---|
| Pack quantity | 1 pcs. |

**Electrical connection - receiver**

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




Connection



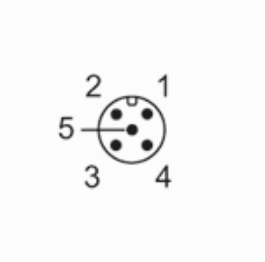
# OY225S

## Safety light curtain

OYA0760-20-4-20-P-1

### Electrical connection - transmitter

Connector: 1 x M12; coding: A




### Connection

