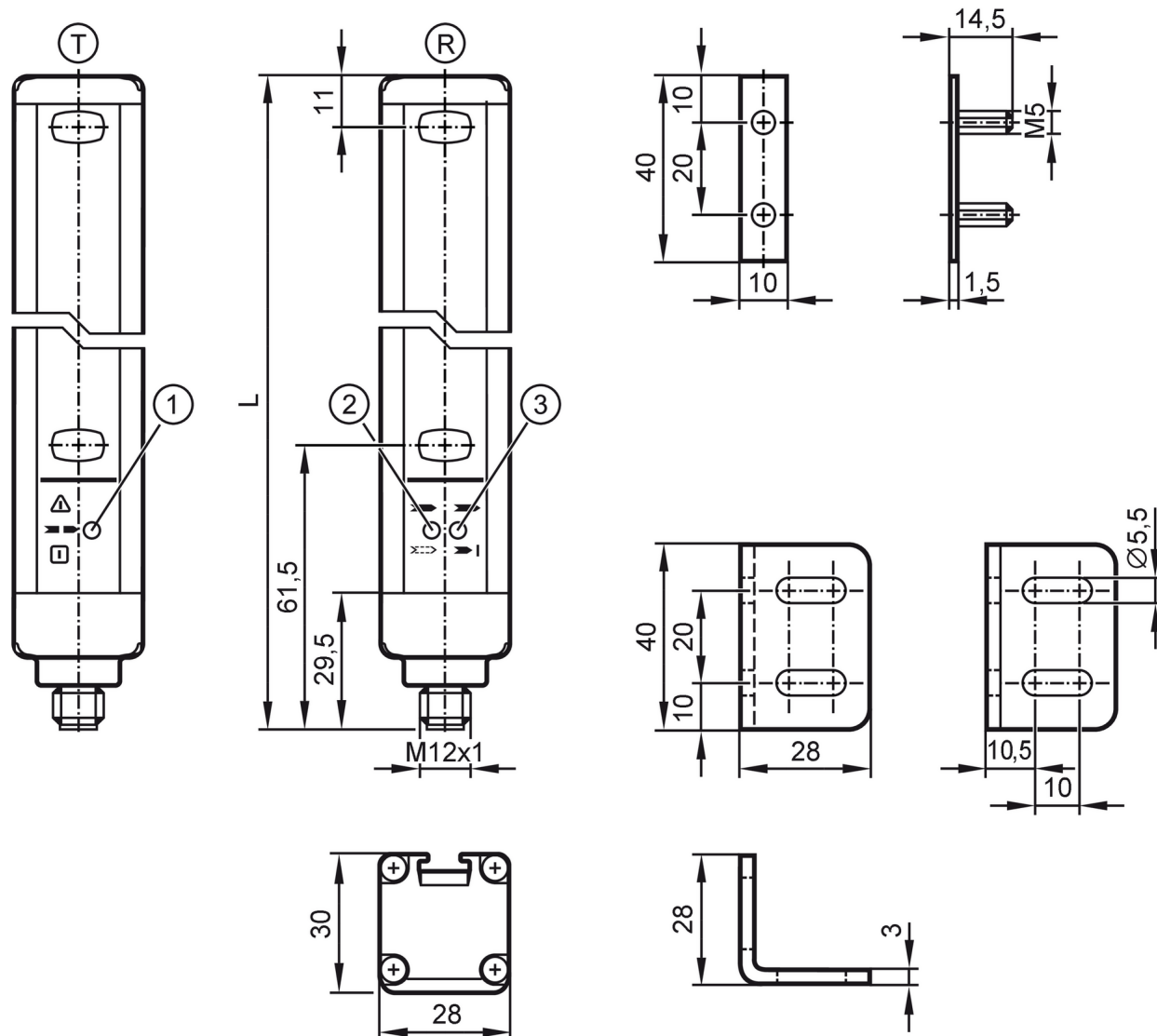




## Safety light curtain

OYA0760-14-4-06-P-1

For 8-wire cordsets the core colors are not standardized.  
Please note the wiring of the sensor and the cordsets (see data sheet).



- T transmitter
- R receiver
- 1 LED three-color red / green / orange
- 2 LED 2-color yellow/blue
- 3 LED 2-color red/green



### Product characteristics

|                   |                |
|-------------------|----------------|
| Type of light     | Infrared light |
| Electrical design | PNP            |
| Protection        | IP 65; IP 67   |

### Application

|                     |                                     |
|---------------------|-------------------------------------|
| Protective function | Access prevention finger protection |
|---------------------|-------------------------------------|

### Electrical data

|                             |        |
|-----------------------------|--------|
| Operating voltage tolerance | [%] 20 |
|-----------------------------|--------|



## Safety light curtain

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|                                              |                                    |                                                |
|----------------------------------------------|------------------------------------|------------------------------------------------|
| 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                                            |
| Monitoring range                             |                                    |                                                |
| Protected area height                        | [mm]                               | 760                                            |
| Resolution (detection capacity d)            | [mm]                               | 14                                             |
| Protection area width (low light intensity)  | [m]                                | 0...3                                          |
| Protection area width (high light intensity) | [m]                                | 1...6                                          |
| Reaction 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                                        |
| Mechanical data                              |                                    |                                                |
| Weight                                       | [g]                                | 2700                                           |
| Dimensions                                   | [mm]                               | 813 x 28 x 30                                  |

OY005S



Safety light curtain

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|          |                                   |     |
|----------|-----------------------------------|-----|
| Material | housing: aluminum; front lens: PC |     |
| Length L | [mm]                              | 813 |

Displays / operating elements

|         |  |             |
|---------|--|-------------|
| Display |  | LED, yellow |
|         |  | LED, green  |
|         |  | LED, red    |
|         |  | LED, blue   |
|         |  | LED, orange |

Accessories

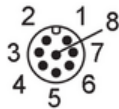
|                |                   |  |
|----------------|-------------------|--|
| Items supplied | Assembly angle: 4 |  |
|                | Slot nuts: 4      |  |
|                | Nuts              |  |

Remarks

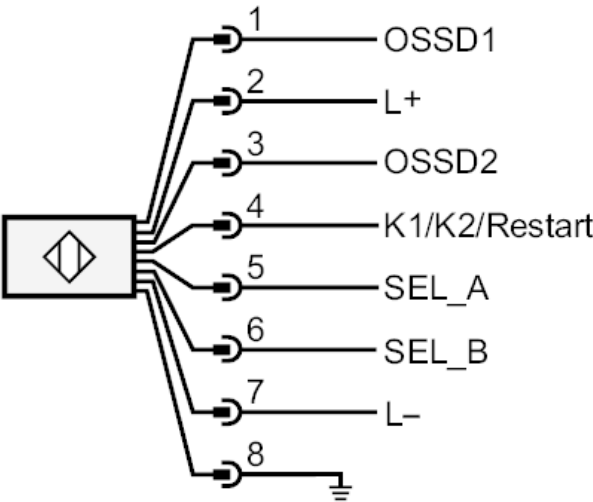
|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection - receiver

Connector: 1 x M12; coding: A; Contacts: 8; Maximum cable length: 100 m; for wire cross-section 0.34 mm²

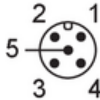


Connection



Electrical connection - transmitter

Connector: 1 x M12; coding: A; Contacts: 5



# OY005S



## Safety light curtain

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### Connection

