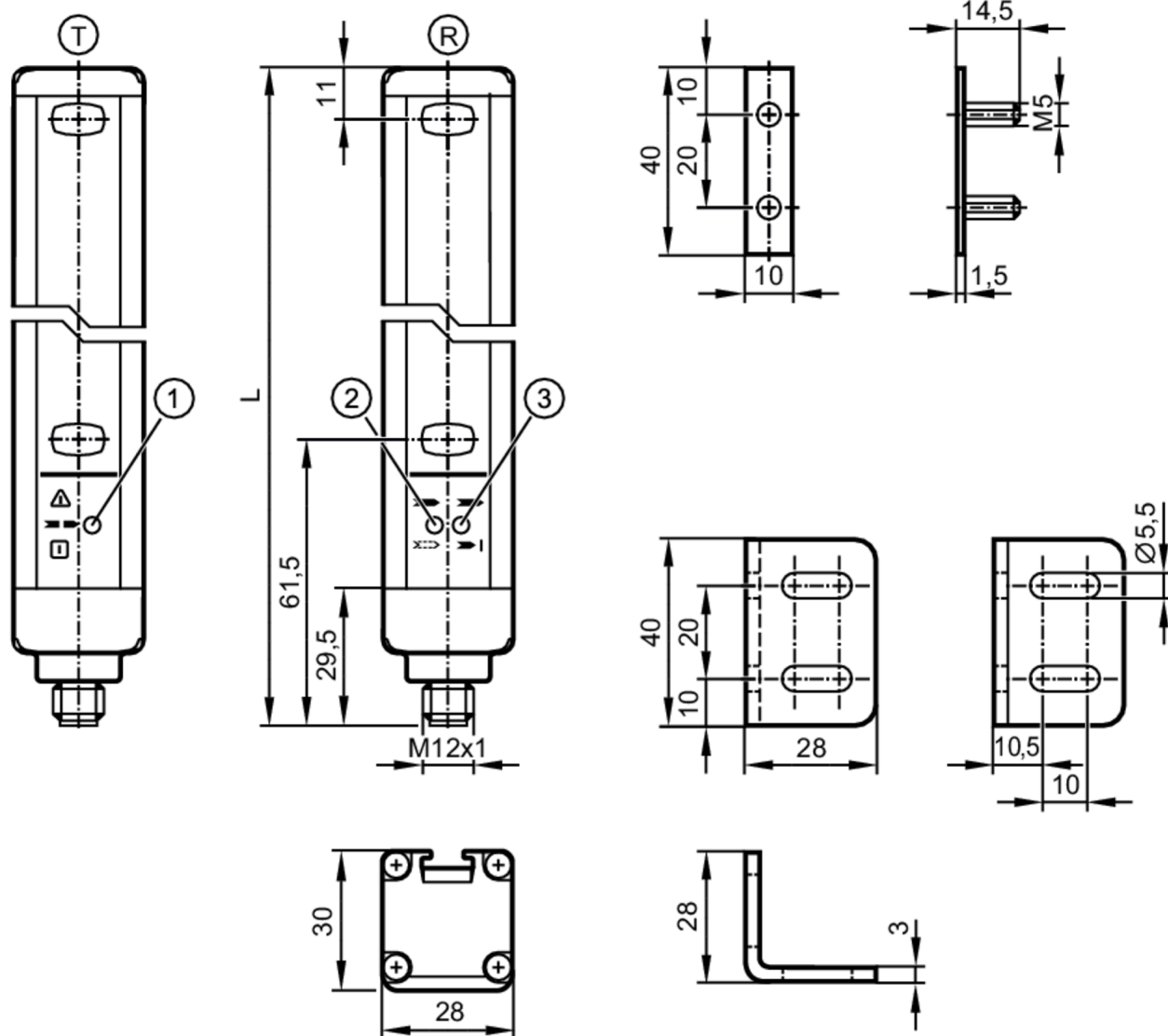




## Safety light curtain

OYA1360-90-4-20-P-1



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



### Application

Protective function

access prevention bodies or parts of bodies



## Safety light curtain

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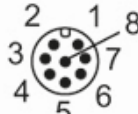
| Electrical data                              |             |                                                |
|----------------------------------------------|-------------|------------------------------------------------|
| Operating voltage tolerance                  | [%]         | 20                                             |
| 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]        | 1360                                           |
| Resolution (detection capacity d)            | [mm]        | 90                                             |
| Protection area width (low light intensity)  | [m]         | 0...10                                         |
| Protection area width (high light intensity) | [m]         | 3...20                                         |
| Response times                               |             |                                                |
| Response time                                | [ms]        | 4                                              |
| 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                        |             |                                                |
| 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]       | 1.2E-08                                        |

# OY209S



## Safety light curtain

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| Mechanical data                                                                              |                                                                                                                                   |                                    |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Weight                                                                                       | [g]                                                                                                                               | 4685                               |
| Dimensions                                                                                   | [mm]                                                                                                                              | 1413 x 28 x 30                     |
| Materials                                                                                    |                                                                                                                                   | housing: aluminium; front lens: PC |
| Length L                                                                                     | [mm]                                                                                                                              | 1413                               |
| Displays / operating elements                                                                |                                                                                                                                   |                                    |
| Display                                                                                      |                                                                                                                                   | LED, yellow                        |
|                                                                                              |                                                                                                                                   | LED, green                         |
|                                                                                              |                                                                                                                                   | LED, red                           |
|                                                                                              |                                                                                                                                   | LED, blue                          |
|                                                                                              |                                                                                                                                   | LED, orange                        |
| Accessories                                                                                  |                                                                                                                                   |                                    |
| Accessories (supplied)                                                                       |                                                                                                                                   | mounting bracket: 6                |
|                                                                                              |                                                                                                                                   | slot nuts: 6                       |
|                                                                                              |                                                                                                                                   | Nuts                               |
| 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 0.34 mm <sup>2</sup> |                                                                                                                                   |                                    |
|           |                                                                                                                                   |                                    |

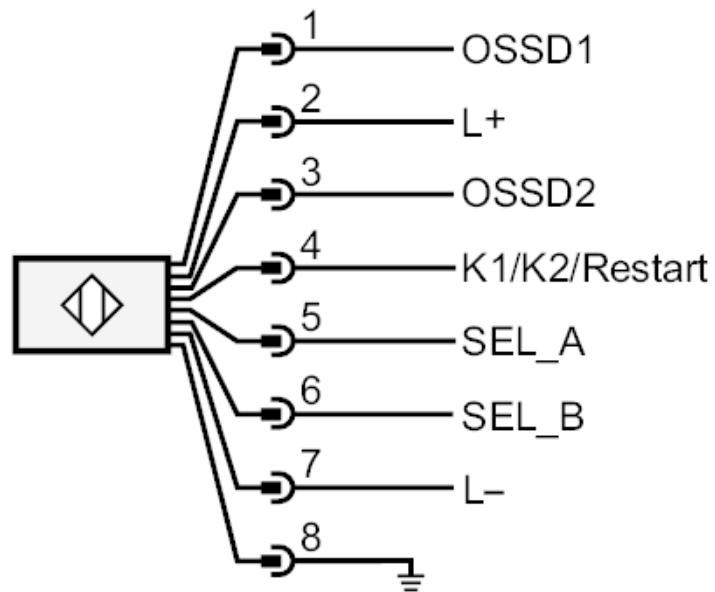
# OY209S



## Safety light curtain

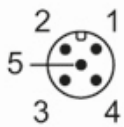
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### Connection



### Electrical connection - transmitter

Connector: 1 x M12



# OY209S

## Safety light curtain

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### Connection

