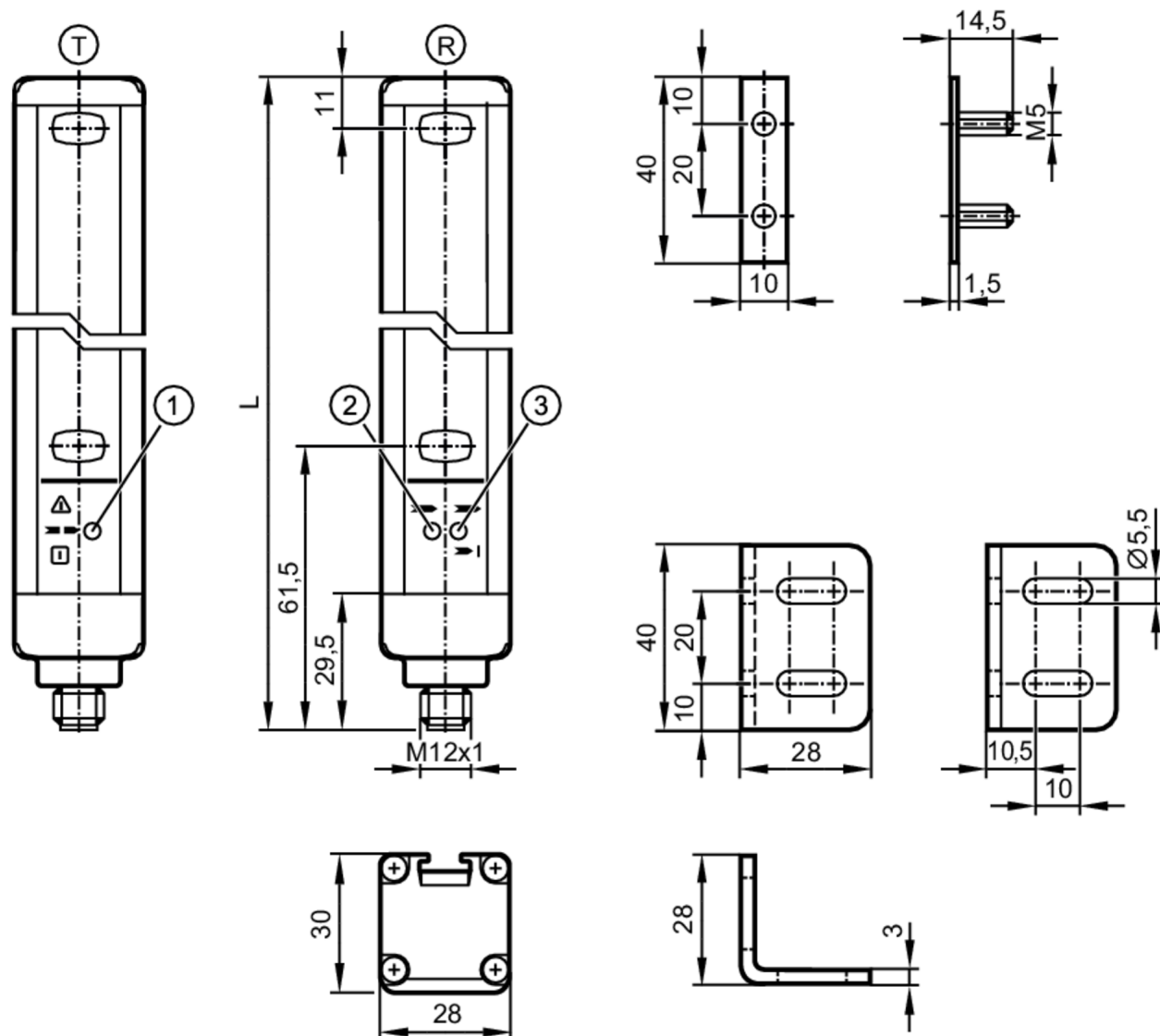


# OY300S



## Safety light curtain

OYA1810-30-2-12-P-1



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



### Application

Protective function

access prevention hand protection



## Safety light curtain

OYA1810-30-2-12-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]        | 1810                                           |
| Resolution (detection capacity d)            | [mm]        | 30                                             |
| Protection area width (low light intensity)  | [m]         | 0...4                                          |
| Protection area width (high light intensity) | [m]         | 3...12                                         |
| Response times                               |             |                                                |
| Response time                                | [ms]        | 19.5                                           |
| Operating conditions                         |             |                                                |
| Applications                                 |             | class C to EN 60654-1 weatherproof application |
| Ambient temperature                          | [°C]        | -10...55                                       |
| Storage temperature                          | [°C]        | -20...70                                       |
| 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: 2, PL: c                             |
| IEC 62061                                    |             | SILCL 1                                        |
| Mission time TM                              | [h]         | 175200                                         |
| Safety-related reliability PFHD              | [1/h]       | 7.6E-08                                        |

# OY300S



## Safety light curtain

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| Mechanical data                                                                     |                                                                                                                                   |                                    |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Weight                                                                              | [g]                                                                                                                               | 5751                               |
| Dimensions                                                                          | [mm]                                                                                                                              | 1863 x 28 x 30                     |
| Materials                                                                           |                                                                                                                                   | housing: aluminium; front lens: PC |
| Length L                                                                            | [mm]                                                                                                                              | 1863                               |
| Displays / operating elements                                                       |                                                                                                                                   |                                    |
| Display                                                                             | transmitter                                                                                                                       | 1 LED                              |
|                                                                                     | receiver                                                                                                                          | 2 LED                              |
| 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 mm²    |                                                                                                                                   |                                    |
|  |                                                                                                                                   |                                    |

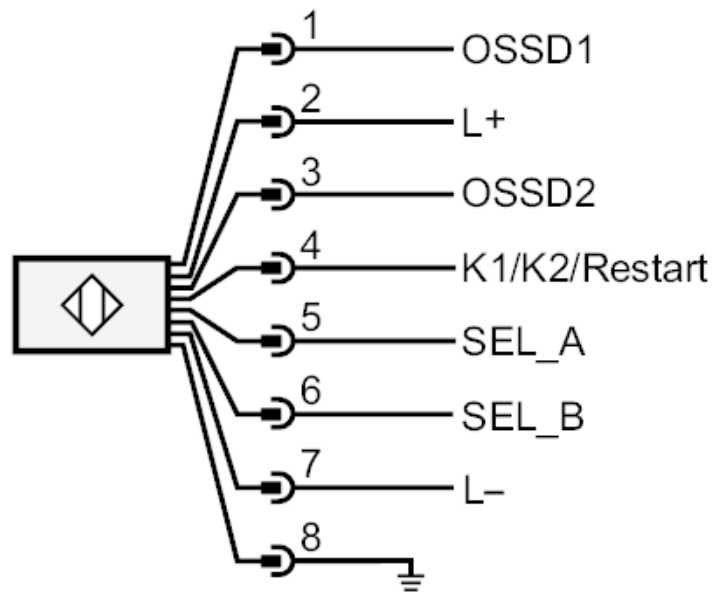
# OY300S



## Safety light curtain

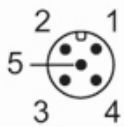
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### Connection



### Electrical connection - transmitter

Connector: 1 x M12



# OY300S

## Safety light curtain

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### Connection

