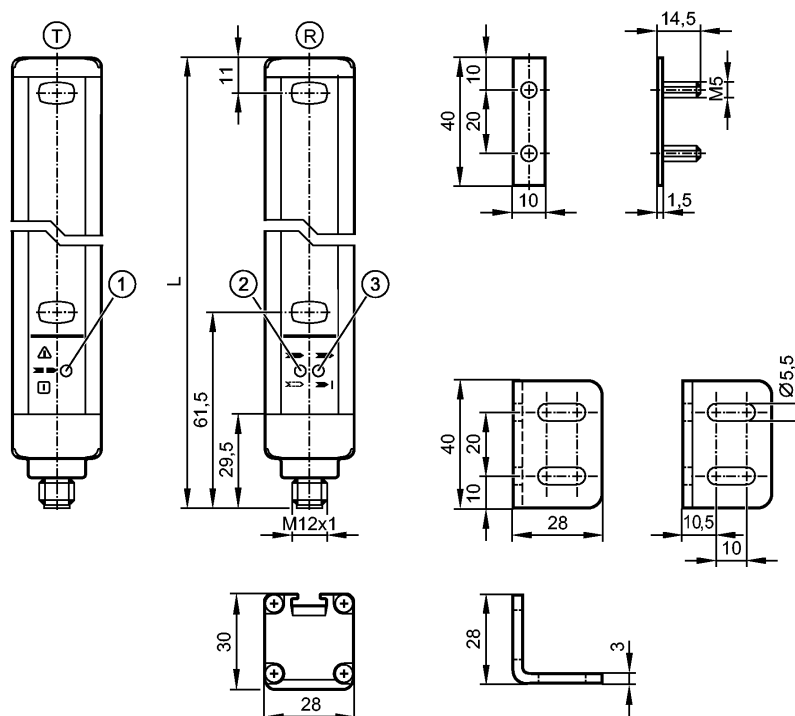


**OY006S**

OYA0910-14-4-06-P-1

Photoelectric sensors

**Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.**



T: Transmitter

R: Receiver

1: LED 3 colours (red/green/orange)

2: LED 2 colours (yellow/blue)

3: LED 2 colours (red/green)


**Product characteristics**

Safety light curtain

Length L: 963 mm

Connector

Complies with the requirements:

type 4 (IEC 61496-1)

SIL 3 (IEC 61508)

SILcl 3 (IEC 62061)

PL e (EN ISO 13849-1)

**Electrical data**

|                             |                       |
|-----------------------------|-----------------------|
| Electrical design           | DC PNP                |
| Operating voltage [V]       | 24 DC (19.2...28.8)   |
| Current consumption         |                       |
| - Transmitter [mA]          | 42                    |
| - Receiver [mA]             | 83                    |
| Type of light               | Infrared light 950 nm |
| Protection class            | III                   |
| Reverse polarity protection | yes                   |
| Power-on delay time [s]     | < 2                   |

**Outputs**

## OY006S

OYA0910-14-4-06-P-1

Photoelectric sensors

|                                   |            |
|-----------------------------------|------------|
| Outputs (OSSDs)                   | 2 x PNP    |
| Max. current load per output [mA] | 400 (24 V) |
| Short-circuit protection          | yes        |

| Range                                 |               |
|---------------------------------------|---------------|
| Protected area height [mm]            | 910           |
| Resolution (detection capacity d)[mm] | 14            |
| Protected area width (range) [m]      | 0...3 / 1...6 |

| Reaction times     |    |
|--------------------|----|
| Response time [ms] | 13 |

| Environment                    |                                                |
|--------------------------------|------------------------------------------------|
| 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                 |                   |
|---------------------------------------|-------------------|
| Mission time TM [h]                   | 175200            |
| Test interval T1 [Years]              | 20                |
| Safety-related reliability PFHd [1/h] | 2.3E-08           |
| MTTFd [Years]                         | 100               |
| DC/CCF/Cat.                           | 93.6 % / 80 % / 4 |

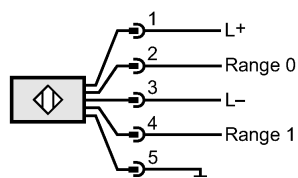
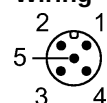
| Mechanical data   |                                |
|-------------------|--------------------------------|
| Length L [mm]     | 963                            |
| Housing materials | housing: aluminium; window: PC |
| Weight [kg]       | 3.275                          |

| Displays / operating elements |                                                              |
|-------------------------------|--------------------------------------------------------------|
| Display                       | LED yellow<br>LED green<br>LED Red<br>LED blue<br>LED orange |

### Electrical connection

|             |               |
|-------------|---------------|
| Transmitter |               |
| Connection  | M12 connector |

#### Wiring Transmitter



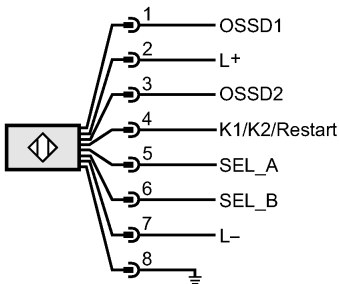
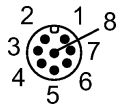
|            |               |
|------------|---------------|
| Receiver   |               |
| Connection | M12 connector |

OY006S

OYA0910-14-4-06-P-1

Photoelectric sensors

Wiring Receiver



|                              |                                            |        |
|------------------------------|--------------------------------------------|--------|
| Max. connection cable length | [m]                                        | 100 *) |
| Accessories                  |                                            |        |
| Accessories (included)       | 4 mounting brackets; 4 mounting nuts; nuts |        |
| Remarks                      |                                            |        |
| Remarks                      | *) for wire cross-section 0.34 mm²         |        |
| Pack quantity                | [piece]                                    | 1      |

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Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.