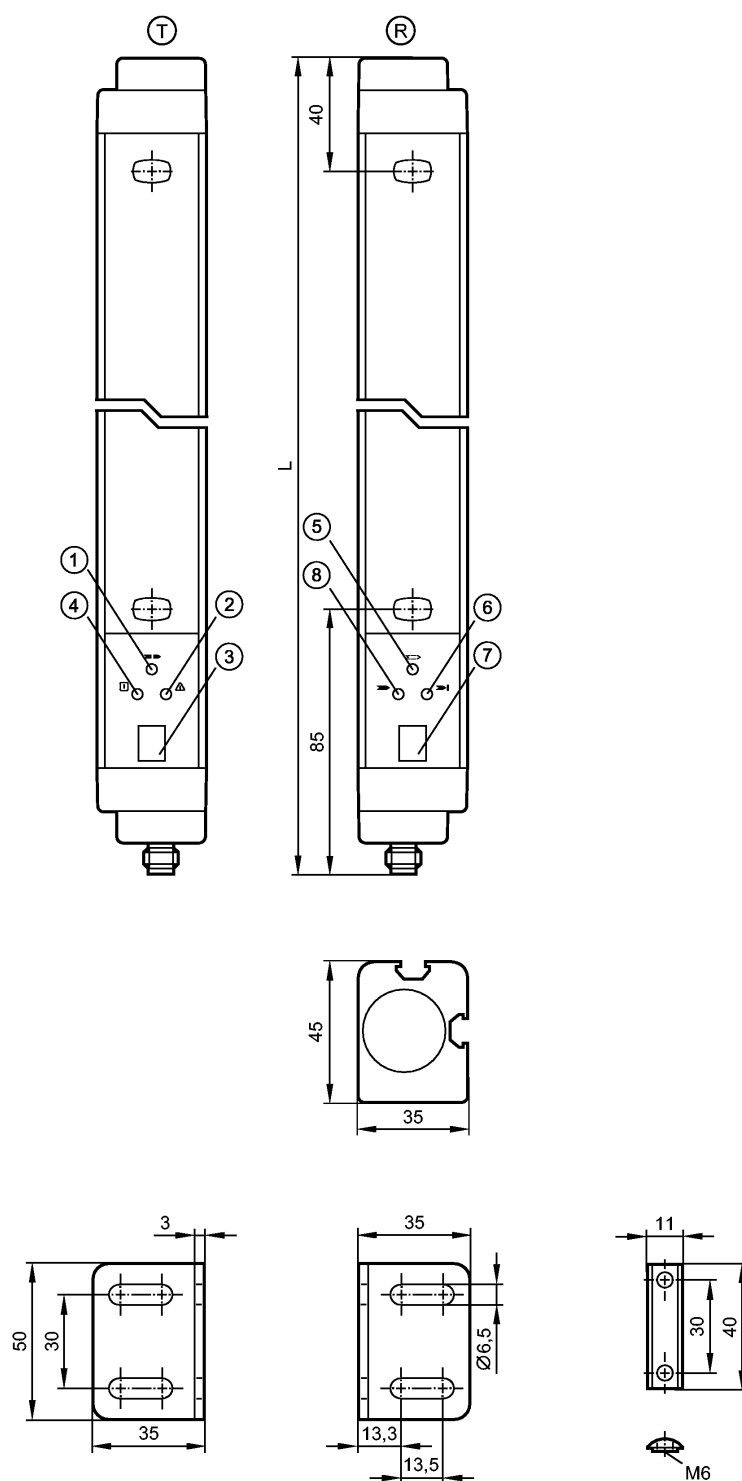


**OY801S**

OYA0160-14-4-05-P-1-B

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 (yellow)
- 2: LED (red)
- 3: 7-segment LED display
- 4: LED (green)
- 5: LED (yellow)
- 6: LED (red)
- 7: 7-segment LED display
- 8: LED (green)

**OY801S**

OYA0160-14-4-05-P-1-B

Photoelectric sensors


**Product characteristics**

Safety light curtain

Length L: 261 mm

Connector

with floating blanking

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]	83
- Receiver [mA]	125
Type of light	Infrared light 950 nm
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 18

**Outputs**

Outputs (OSSDs)	2 x PNP
Max. current load per output [mA]	500 (24 V)
Short-circuit protection	yes

**Range**

Protected area height [mm]	160
Resolution (detection capacity d)[mm]	14
Protected area width (range) [m]	0...3 / 0...5

**Reaction times**

Response time [ms]	6
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**Environment**

Applications	Class C to EN 60654-1 weatherproof application
Ambient temperature [°C]	0...55
Max. relative air humidity [%]	95
Protection	IP 65

**Tests / approvals**

EMC	IEC 61496-1
Shock resistance	IEC 61496-1
Vibration resistance	IEC 61496-1

**Safety classification**

Mission time TM [h]	175200
Safety-related reliability PFHd [1/h]	1 E -08
MTTFd [Years]	100

# OY801S

OYA0160-14-4-05-P-1-B

Photoelectric sensors

DC/CCF/Cat.	97.8 % / 80 % / 4
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## Mechanical data

Length L	[mm]	261
Housing materials	housing: aluminium; window: PC	
Weight	[kg]	3.36

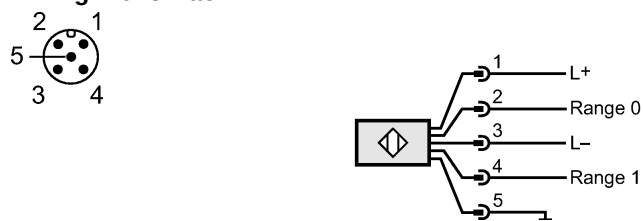
## Displays / operating elements

Display	LED yellow LED green LED Red 7-segment LED display
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## Electrical connection

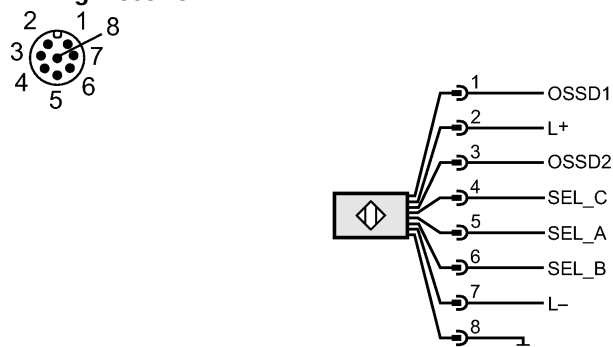
Transmitter	
Connection	M12 connector

### Wiring Transmitter



Receiver	
Connection	M12 connector

### Wiring Receiver



Max. connection cable length	[m]	100 *)
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## Accessories

Accessories (included)	4 mounting brackets; 4 mounting nuts; screws
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## Remarks

Remarks	*) for wire cross-section 0.34 mm²
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Pack quantity	[piece]	1
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