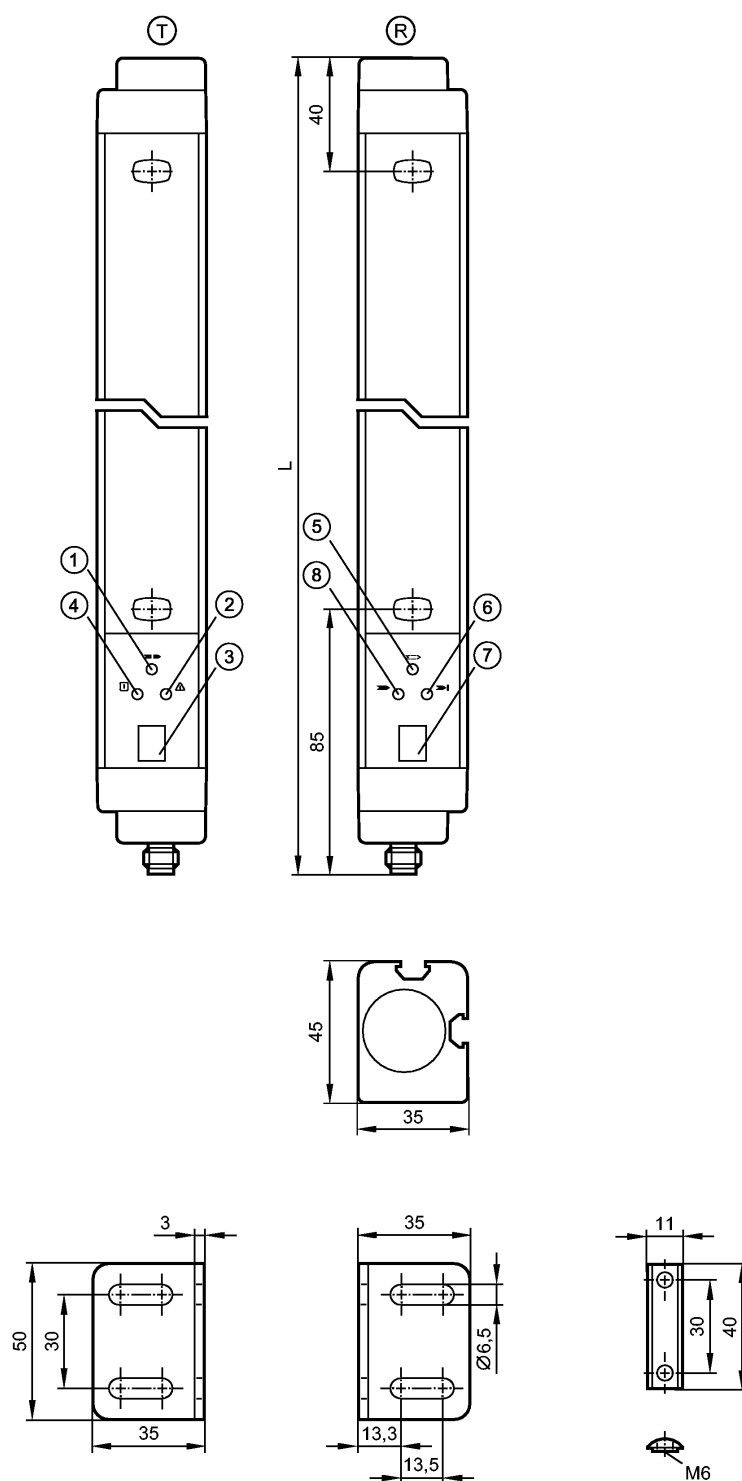


OY829S

OYA1210-40-4-18-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 LCD display
- 8: LED green

OY829S

OYA1210-40-4-18-P-1-B

Photoelectric sensors


Product characteristics

Safety light curtain

Length L: 1311 mm

Quick disconnect

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

Monitoring range

Protected area height [mm]	1210
Resolution (detection capacity d)[mm]	40
Protected area width (range) [m]	0...6 / 3...18

Reaction times

Response time [ms]	12.5
--------------------	------

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]	1.5 E -08
MTTFd [Years]	100

OY829S

OYA1210-40-4-18-P-1-B

Photoelectric sensors

DC/CCF/Cat.	98.4 % / 80 % / 4
-------------	-------------------

Mechanical data

Length L	[mm]	1311
Housing materials	housing: aluminum; window: PC	
Weight	[kg]	3.336

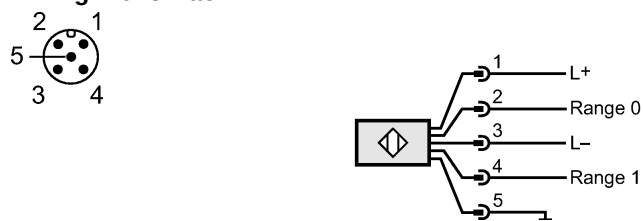
Displays / operating elements

Display	Transmitter 3 LED Transmitter 1 7-segment LCD display Receiver 3 LED Receiver 1 7-segment LCD display
---------	--

Electrical connection

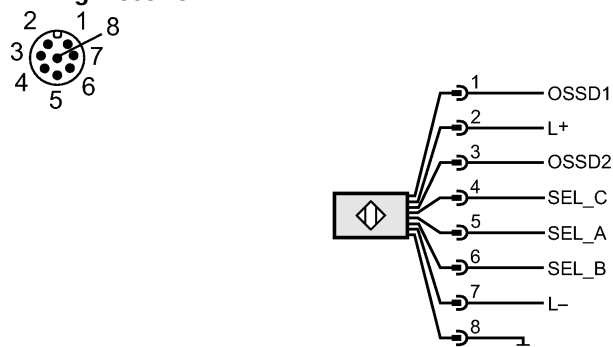
Transmitter	
Connection	M12 connector

Wiring Transmitter



Receiver	
Connection	M12 connector

Wiring Receiver



Max. connection cable length	[m]	100 *)
------------------------------	-----	--------

Accessories

Accessories (included)	4 assembly angles; 4 mounting nuts; screws
------------------------	--

Remarks

Remarks	*) for wire cross-section 0.34 mm²
---------	------------------------------------

Pack quantity	[piece]	1
---------------	---------	---

ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — OY829S — 14.11.2012

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