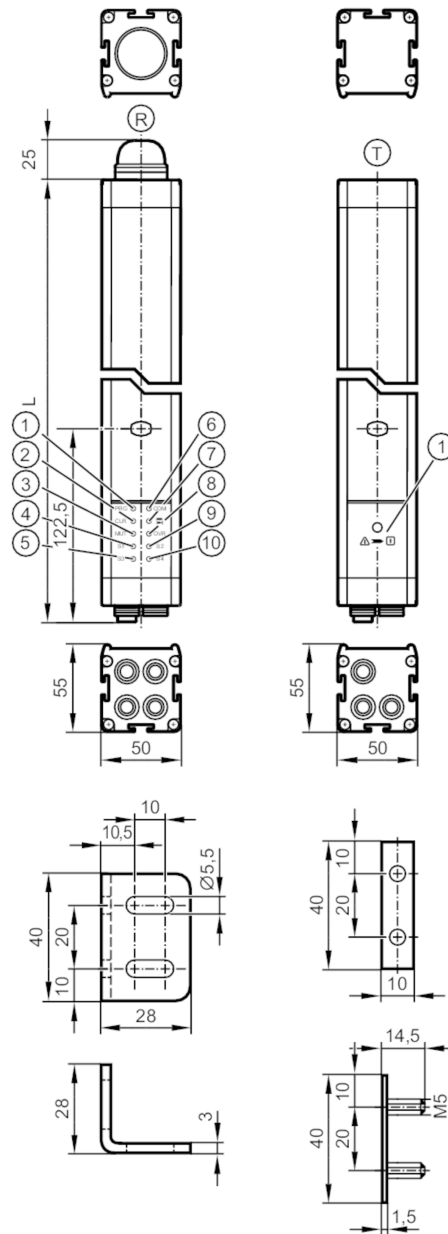




Safety light grids

OYA510-02-4-12-P-4-M



- T transmitter
- 1 LED three-color red / yellow / green
-
- R receiver
- 1 LED yellow
- 2 LED yellow
- 3 LED yellow
- 4 LED yellow
- 5 LED yellow
- 6 LED orange
- 7 LED 2-color red/green
- 8 LED yellow
- 9 LED yellow
- 10 LED yellow



Product characteristics

Type of light

Infrared light



Safety light grids

OYA510-02-4-12-P-4-M

Electrical design	PNP
Protection	IP 65; IP 67
Electrical data	
Operating voltage [V]	24 DC
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 10
Type of light	Infrared light
Wave length [nm]	950
Receiver	
Current consumption [mA]	84
Transmitter	
Current consumption [mA]	42
Outputs	
Electrical design	PNP
Number of OSSD outputs	2
Max. current load per OSSD output [mA]	300; (24 V)
Short-circuit protection	yes
Monitoring range	
Protected area height [mm]	510
Number of beams	2
Protection area width (low light intensity) [m]	0...4
Protection area width (high light intensity) [m]	3...12
Reaction times	
Response time [ms]	5.5
Operating conditions	
Applications	Class C to EN 60654-1 weatherproof application
Ambient temperature [°C]	-30...55
Storage temperature [°C]	-30...70
Max. relative air humidity [%]	95; (non condensing)
Protection	IP 65; IP 67
Tests / approvals	
EMC	IEC 61496-1
Shock resistance	IEC 61496-1
Vibration resistance	IEC 61496-1
Safety classification	
ESPE type (IEC 61496-1)	4
Complies with the requirements	ISO 13849-1: 2015 Category 4, PL e
	IEC 61508 SIL 3
	IEC 62061 SIL 3
Mission time TM [h]	175200

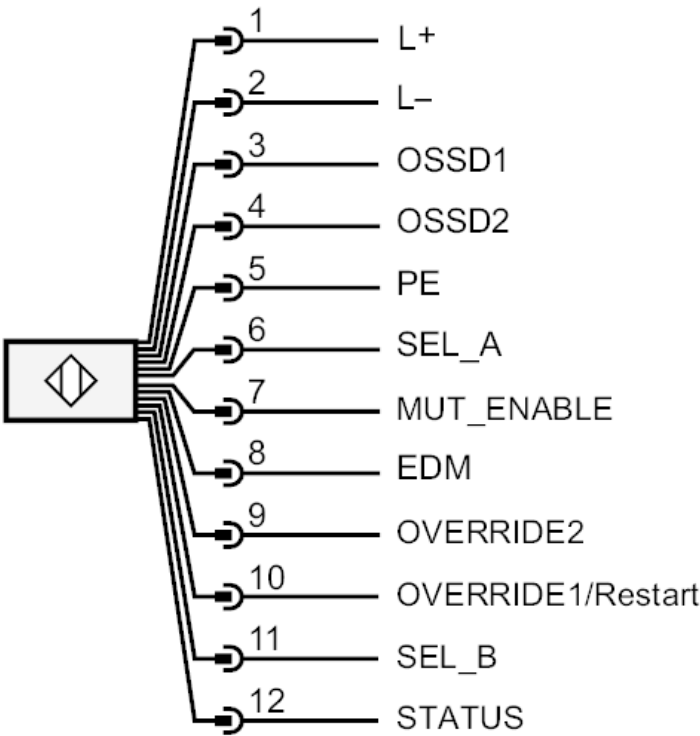
OY511S



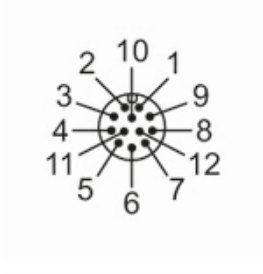
Safety light grids

OYA510-02-4-12-P-4-M

PFH	[1/h]	9E-09	
Mechanical data			
Weight	[g]	4720	
Dimensions	[mm]	685 x 50 x 50	
Material		housing: aluminum; front lens: PC	
Length L	[mm]	685	
Displays / operating elements			
Display	transmitter	1 x LED	
	receiver	10 x LED	
Accessories			
Items supplied	Assembly angle: 4		
	Slot nuts: 4		
Remarks			
Pack quantity	1 pcs.		
Electrical connection - receiver			
Connection			



Connector: 1 x M12; Maximum cable length: 100 m; for wire cross-section 1 mm²



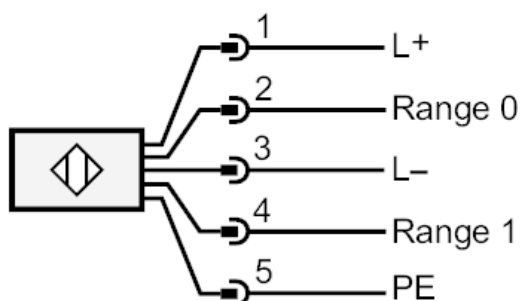


Safety light grids

OYA510-02-4-12-P-4-M

Electrical connection - transmitter

Connection



Connector: 1 x M12; coding: A

