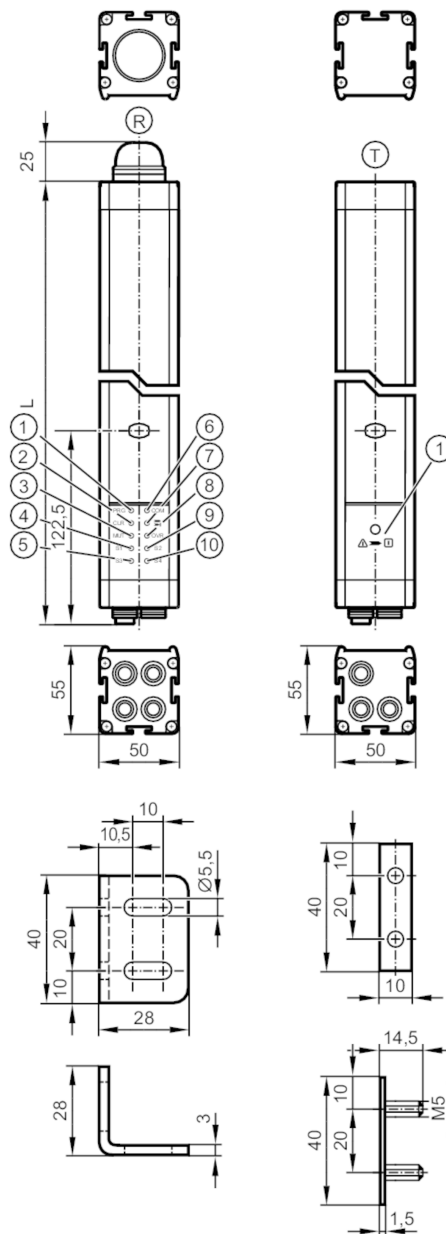


OY511S



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

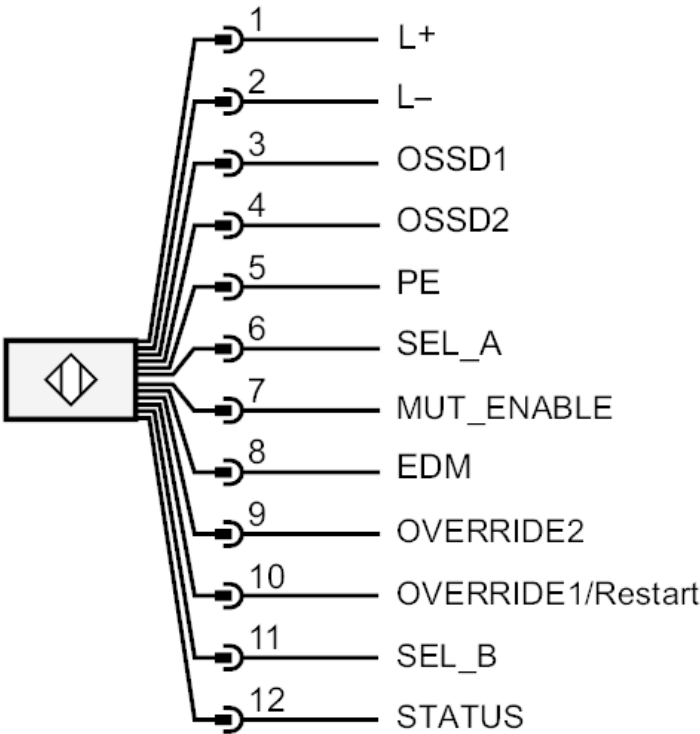
Electrical design	PNP
Protection	IP 65; IP 67
Electrical data	
Operating voltage [V]	24 DC
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 10
Type of light	Infrared light
Wave length [nm]	950
Receiver	
Current consumption [mA]	84
Transmitter	
Current consumption [mA]	42
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: 2023 Category 4, PL e
	IEC 61508 SIL 3
	IEC 62061 SIL 3
Mission time TM [h]	175200



Safety light grids

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

PFH	[1/h]	9E-09
Mechanical data		
Weight	[g]	4720
Housing		rectangular
Dimensions	[mm]	685 x 50 x 55
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		



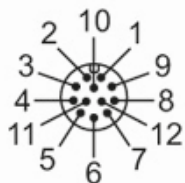
OY511S



Safety light grids

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

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



Electrical connection - transmitter

Connection



Connector: 1 x M12; coding: A

