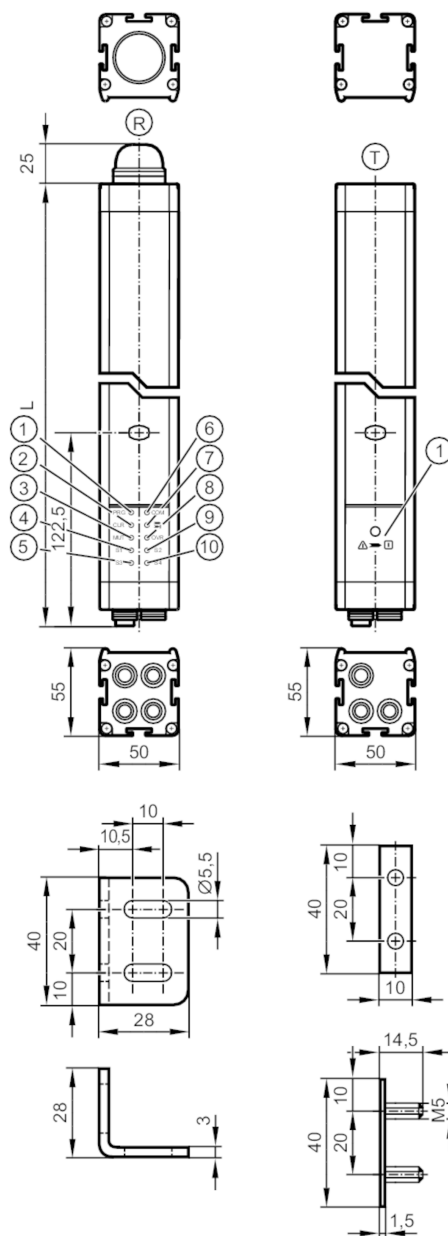


OY511S



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 |





Safety light grids

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

Product characteristics		
Type of light		Infrared light
Dimensions	[mm]	685 x 50 x 50
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 light grids

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

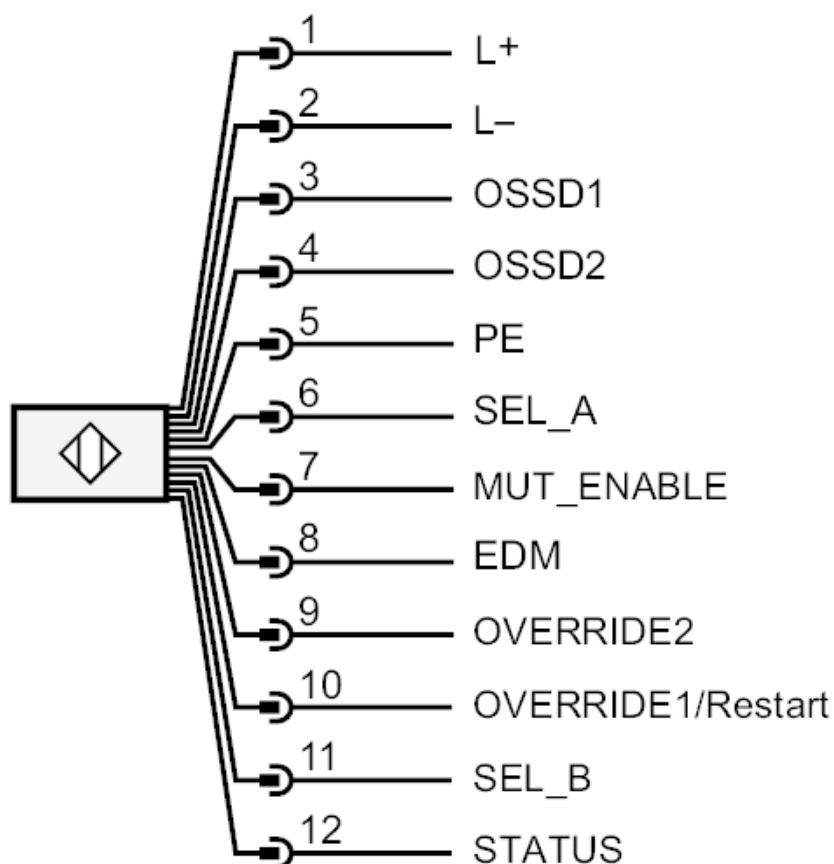
Safety classification		
ESPE type (IEC 61496-1)	4	
ISO 13849-1	Category 4, PL e	
IEC 61508	SIL 3	
IEC 62061	SIL cl 3	
Mission time TM	[h]	175200
Safety-related reliability PFHD	[1/h]	9E-09
Mechanical data		
Weight	[g]	4720
Dimensions	[mm]	685 x 50 x 50
Material	housing: aluminum; front lens: PC	
Length 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.	

Safety light grids

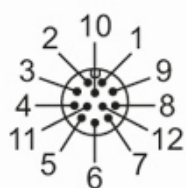
OYA510-02-4-12-P-4-M

Electrical connection - receiver

Connection



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

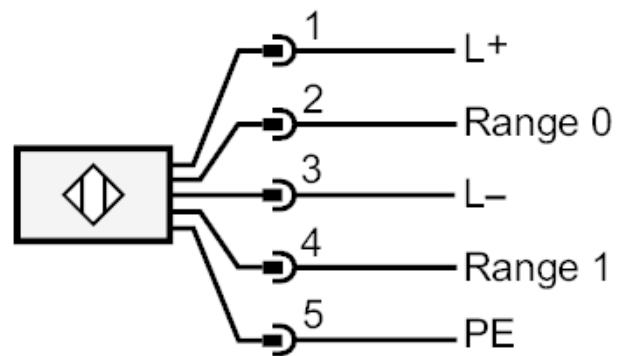


Safety light grids

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

Electrical connection - transmitter

Connection



Connector: 1 x M12

