

Technical drawing of the M12x1 nut, showing front, side, and detail views with dimensions in mm.

Front View (Top): Overall length 122 mm. Thread length 114 mm. Flange thickness 13 mm. Thread specification M12x1. Callouts 1, 2, 3, 4, and 5 indicate specific features.

Side View (Right): Shows the profile of the nut with callout P.

Top View (Bottom Left): Outer diameter 50 mm. Inner hole diameter 30 mm. Flange thickness 10.5 mm.

Bottom View (Bottom Center): Outer diameter 50 mm. Inner hole diameter 30 mm. Flange thickness 10.5 mm. Thread length 13.5 mm. Callout 3 indicates a feature on the flange.

Detail View (Bottom Right): Shows the thread profile with dimensions 50 mm, 30 mm, 10.5 mm, and 11.8 mm. Thread specification M6.

- | | |
|---|-----------------|
| A | active element |
| P | passive element |
| 1 | LED orange |
| 2 | LED red |
| 3 | LED green |
| 4 | LED yellow |
| 5 | display |



Type of light	infrared light
Electrical design	PNP



Safety light grids

OYD0510-02-4-06-P-1

Protection	IP 65	
Application		
Protective function	access prevention body protection	
Electrical data		
Operating voltage tolerance	[%]	20
Operating voltage	[V]	24 DC
Current consumption	[mA]	250
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 10
Type of light		infrared light
Wave length	[nm]	950
Outputs		
Electrical design		PNP
Number of OSSD outputs		2
Max. current load per OSSD output	[mA]	500; (24 V)
Short-circuit protection		yes
Detection zone		
Protected area height	[mm]	510
Number of beams		2
Protection area width (low light intensity)	[m]	0...6
Protection area width (high light intensity)	[m]	0...6
Active/passive system		yes
Response times		
Response time	[ms]	10
Operating conditions		
Applications	class C to EN 60654-1 weatherproof application	
Ambient temperature	[°C]	-10...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		
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
PFH	[1/h]	4,8E-09

OY901S



Safety light grids

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Mechanical data		
Weight	[g]	5170
Dimensions	[mm]	736 x 50 x 60
Materials		housing: aluminium; front pane: PC
Length L	[mm]	736

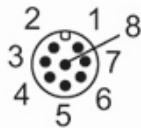
Displays / operating elements		
Display	transmitter	4 x LED
	transmitter	LC display

Accessories		
Items supplied		mounting bracket: 4
		slot nuts: 4

Remarks		
Pack quantity		1 pcs.

Electrical connection

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



Connection

