

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 specific feature.

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

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Type of light	Infrared light
Dimensions [mm]	1036 x 50 x 60



Safety light grids

OYD0810-03-4-06-P-1

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
Monitoring range		
Protected area height	[mm]	810
Number of beams		3
Protection area width (low light intensity)	[m]	0...6
Protection area width (high light intensity)	[m]	0...6
Active/passive system		yes
Reaction times		
Response time	[ms]	10.5
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
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]	4.9E-09

OY902S



Safety light grids

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Mechanical data		
Weight	[g]	7290
Dimensions	[mm]	1036 x 50 x 60
Material		housing: aluminum; front lens: PC
Length L	[mm]	1036
Displays / operating elements		
Display	transmitter	4 x LED
	transmitter	LC display
Accessories		
Items supplied	Assembly angle: 6	
	Slot nuts: 6	
Remarks		
Pack quantity	1 pcs.	

Electrical connection

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



Connection

