



Safety light grid

OYA0510-02-4-12-P-1

For 8-wire cordsets the core colors are not standardized.
Please note the wiring of the sensor and the cordsets (see data sheet).



- T transmitter
- R receiver
- 1 LED three-color red / green / orange
- 2 LED yellow
- 3 LED 2-color red/green



Product characteristics

Type of light	Infrared light
Dimensions [mm]	653 x 28 x 30

Application

Protective function	Access prevention body protection
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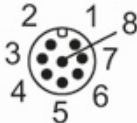
Electrical data		
Operating voltage tolerance	[%]	20
Operating voltage	[V]	24 DC
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 2
Type of light		Infrared light
Wave length	[nm]	950
Receiver		
Current consumption	[mA]	83
Transmitter		
Current consumption	[mA]	42
Outputs		
Electrical design		PNP
Number of OSSD outputs		2
Max. current load per OSSD output	[mA]	400; (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]	2.5
Operating conditions		
Applications		Class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-10...55
Storage temperature	[°C]	-20...70
Max. relative air humidity	[%]	95
Protection		IP 65; IP 67
Tests / approvals		
EMC	IEC 61496-1	
Shock resistance	IEC 61496-1	
Vibration resistance	IEC 61496-1	

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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]	6.9E-09
Mechanical data		
Weight	[g]	2240
Dimensions	[mm]	653 x 28 x 30
Material	housing: aluminum; front lens: PC	
Length L	[mm]	653
Displays / operating elements		
Display		LED, yellow
		LED, green
		LED, red
Accessories		
Items supplied	Assembly angle: 4	
	Slot nuts: 4	
	Nuts	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - receiver		
Connector: 1 x M12; Maximum cable length: 100 m; for wire cross-section 0.34 mm²		
		

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Connection



Electrical connection - transmitter

Connector: 1 x M12



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Connection

