

OYA1210-40-4-20-P-1

Technical drawing of a 12V/20Ah battery, showing front, side, and detail views with dimensions in mm.

Front View (Left): Shows the battery terminals. The top terminal is labeled 'T' and the bottom terminal is labeled '1'. The overall length is labeled 'L'.

Side View (Top): Shows the battery profile. The top terminal is labeled 'R'. The overall length is labeled 'L'. The distance from the top terminal to the center of the battery is 11 mm. The distance from the bottom terminal to the center of the battery is 61,5 mm. The distance from the bottom terminal to the center of the battery is 29,5 mm. The bottom terminal is labeled 'M12x1'.

Detail Views (Right):

- Top View (Top):** Shows the top terminal. The distance from the top terminal to the center of the battery is 10 mm. The distance from the center of the battery to the bottom terminal is 20 mm. The distance from the bottom terminal to the center of the battery is 10 mm. The distance from the center of the battery to the bottom terminal is 10 mm.
- Bottom View (Bottom):** Shows the bottom terminal. The distance from the bottom terminal to the center of the battery is 10 mm. The distance from the center of the battery to the top terminal is 20 mm. The distance from the top terminal to the center of the battery is 10 mm. The distance from the center of the battery to the top terminal is 10 mm.
- Side View (Bottom):** Shows the battery profile. The distance from the bottom terminal to the center of the battery is 10,5 mm. The distance from the center of the battery to the top terminal is 10 mm. The distance from the top terminal to the center of the battery is 10 mm. The distance from the center of the battery to the top terminal is 10 mm.
- Top View (Bottom):** Shows the top terminal. The distance from the top terminal to the center of the battery is 10 mm. The distance from the center of the battery to the bottom terminal is 20 mm. The distance from the bottom terminal to the center of the battery is 10 mm. The distance from the center of the battery to the bottom terminal is 10 mm.

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|---|---------------------------------------|
| T | transmitter |
| R | receiver |
| 1 | LED three-colour red / green / orange |
| 2 | LED 2-colour yellow/blue |
| 3 | LED 2-colour red/green |



Type of light	infrared light
Electrical design	PNP
Protection	IP 65; IP 67

Protective function	access prevention hand protection
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Safety light curtain

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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
Detection zone		
Protected area height	[mm]	1210
Resolution (detection capacity d)	[mm]	40
Protection area width (low light intensity)	[m]	0...10
Protection area width (high light intensity)	[m]	3...20
Response times		
Response time	[ms]	7
Operating conditions		
Applications		class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-10...55
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	
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]	1,5E-08

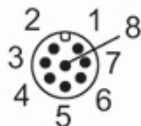
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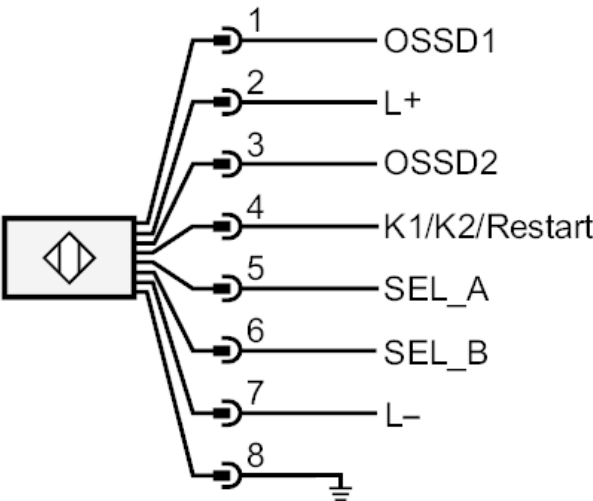
Safety light curtain

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Mechanical data		
Weight	[g]	4140
Dimensions	[mm]	1263 x 28 x 30
Materials		housing: aluminium; front pane: PC
Length L	[mm]	1263
Displays / operating elements		
Display		LED, yellow
		LED, green
		LED, red
		LED, blue
		LED, orange
Accessories		
Items supplied		mounting bracket: 6
		slot nuts: 6
		Nuts
Remarks		
Pack quantity		1 pcs.
Electrical connection - receiver		
Connector: 1 x M12; coding: A; Maximum cable length: 100 m; for wire cross-section 0.34 mm²		



Connection



Safety light curtain

OYA1210-40-4-20-P-1

Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

