

OYA0610-50-4-12-P-1

Technical drawing of a 12V/20Ah battery showing multiple views and dimensions:

- Top View:** Shows the battery terminals labeled 'T' (positive) and 'R' (negative). The overall length is 'L'.
- Front View:** Shows the battery profile with a total height of 61,5 mm. The terminal height is 29,5 mm. The bottom mounting tab is labeled 'M12x1'.
- Side View:** Shows the battery width of 28 mm and a height of 30 mm. It features four mounting holes.
- Terminal Details:**
 - The positive terminal (+) has a diameter of 10,5 mm and a height of 10 mm.
 - The negative terminal (-) has a diameter of 10,5 mm and a height of 10 mm.
 - The terminal thickness is 1,5 mm.
 - The terminal width is 14,5 mm.
 - The terminal pitch is 20 mm.
 - The terminal height from the base is 40 mm.
- Internal Components:** Labeled '1' (battery cells) and '2' (internal wiring).
- Labels:** 'T' for positive terminal, 'R' for negative terminal, and '1' for battery cells.

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



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

Protective function	access prevention bodies or parts of bodies
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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]	610
Resolution (detection capacity d)	[mm]	50
Protection area width (low light intensity)	[m]	0...4
Protection area width (high light intensity)	[m]	3...12
Response times		
Response time	[ms]	5.5
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	
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]	8,5E-09



Safety light curtain

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Mechanical data		
Weight	[g]	2510
Dimensions	[mm]	663 x 28 x 30
Materials		housing: aluminium; front pane: PC
Length L	[mm]	663

Displays / operating elements		
Display	transmitter	1 x LED
	receiver	2 x LED

Accessories		
Items supplied		mounting bracket: 4
		slot nuts: 4
		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

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Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

