

OYA0460-40-2-12-P-1

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

- Top View:** Shows the battery terminals labeled 'T' (Top) and 'R' (Right). Dimensions include a total length of 61,5 and a terminal spacing of 11.
- Front View:** Shows the battery profile with a total height of 61,5 and a terminal height of 29,5. The terminal is labeled 'M12x1'.
- Side View:** Shows the battery width of 28 and a height of 30. It includes four mounting holes marked with a '+' symbol.
- Bottom View:** Shows the battery base with a width of 28 and a height of 30. It includes four mounting holes marked with a '+' symbol.
- Terminal View:** Shows the terminal details with a width of 14,5 and a height of 1,5. The terminal is labeled 'M5'.
- Internal View:** Shows the internal components with a width of 28 and a height of 40. It includes two internal components marked with a '+' symbol.
- Bottom View (Detail):** Shows the bottom of the battery with a width of 10,5 and a height of 10. It includes a mounting hole marked with a '+' symbol.

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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 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]	460
Resolution (detection capacity d)	[mm]	40
Protection area width (low light intensity)	[m]	0...4
Protection area width (high light intensity)	[m]	3...12
Response times		
Response time	[ms]	6
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)		2
Complies with the requirements		ISO 13849-1: 2015 category 2, PL c IEC 62061 SIL 1
Mission time TM	[h]	175200
PFH	[1/h]	2,7E-08



Safety light curtain

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Mechanical data		
Weight	[g]	2000
Dimensions	[mm]	513 x 28 x 30
Materials		housing: aluminium; front pane: PC
Length L	[mm]	513

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

Аксессуары		
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

