

OYA1060-90-4-20-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 indicated as 'L'.

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

Detail View (Bottom): Shows a close-up of the bottom terminal, labeled '2' and '3'. It features a rectangular cutout with a width of 28 mm and a height of 30 mm.

Top View (Right): Shows the battery from above. The overall width is 10 mm. The distance between the two main terminals is 20 mm. The terminal width is 10 mm. The terminal is labeled 'M5'.

Side View (Bottom): Shows the battery from the side. The overall width is 10,5 mm. The distance between the two main terminals is 10 mm. The terminal is labeled 'Ø5,5'.

Bottom View (Far Right): Shows the battery from below. The overall width is 10 mm. The distance between the two main terminals is 20 mm. The terminal is labeled 'Ø5,5'.

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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 bodies or parts of bodies
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Safety light curtain

OYA1060-90-4-20-P-1

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]	1060
Resolution (detection capacity d)	[mm]	90
Protection area width (low light intensity)	[m]	0...10
Protection area width (high light intensity)	[m]	3...20
Response times		
Response time	[ms]	3.5
Operating conditions		
Applications		class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-10...55
Max. relative air humidity	[%]	95
Protection		IP 65; 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]	1,1E-08



Safety light curtain

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Mechanical data		
Weight	[g]	3595
Dimensions	[mm]	1113 x 28 x 30
Materials		housing: aluminium; front pane: PC
Length L	[mm]	1113
Displays / operating elements		
Display		LED, yellow
		LED, green
		LED, red
		LED, blue
		LED, orange
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

