

OYA0910-40-4-12-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 battery has a width of 28 mm and a height of 30 mm.

Side View (Top): Shows the battery's profile. The total 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 is 29,5 mm. The total height is 61,5 mm. The bottom terminal is labeled 'M12x1'.

Side View (Bottom): Shows the battery's profile. The total length is labeled 'L'. The distance from the top terminal to the center is 11 mm. The distance from the bottom terminal to the center is 29,5 mm. The total height is 61,5 mm. The bottom terminal is labeled 'M12x1'.

Detail Views (Right): Shows the battery's internal structure and terminal details. The top terminal is labeled 'R'. The bottom terminal is labeled '3'. The battery has a width of 28 mm and a height of 30 mm. The terminal diameter is labeled $\varnothing 5,5$. The terminal length is 10,5 mm. The terminal width is 10 mm. The terminal thickness is 3 mm. The terminal material is labeled 'M5'.

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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]	910
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]	9
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]	1,1E-08



Safety light curtain

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Mechanical data		
Weight	[g]	3385
Dimensions	[mm]	963 x 28 x 30
Materials		housing: aluminium; front pane: PC
Length L	[mm]	963

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

