

OYA0460-50-4-12-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 dimensions: 11mm (terminal height), 61,5mm (total height), and 29,5mm (body height). The bottom terminal is labeled 'M12x1'.
- Side View:** Shows the battery width with dimensions: 10mm (terminal width), 20mm (body width), and 40mm (total width). The bottom terminal is labeled 'M5'.
- Bottom View:** Shows the battery base with dimensions: 10,5mm (terminal width), 10mm (body width), and 28mm (total width). The bottom terminal is labeled 'Ø5,5'.
- End View:** Shows the battery end with dimensions: 28mm (total width) and 3mm (terminal thickness).

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|---|--------------------------------------|
| T | transmitter |
| R | receiver |
| 1 | LED three-color red / green / orange |
| 2 | LED yellow |
| 3 | LED 2-color 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
Monitoring range		
Protected area height	[mm]	460
Resolution (detection capacity d)	[mm]	50
Protection area width (low light intensity)	[m]	0...4
Protection area width (high light intensity)	[m]	3...12
Reaction times		
Response time	[ms]	4.5
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]	7,9E-09

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Safety light curtain

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Mechanical data		
Weight	[g]	1990
Dimensions	[mm]	513 x 28 x 30
Material		housing: aluminum; front lens: PC
Length L	[mm]	513

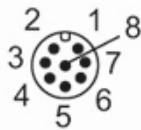
Displays / operating elements		
Display	transmitter	1 x LED
	receiver	2 x LED

Accessories		
Items supplied		Assembly angle: 4
		Slot nuts: 4
		Nuts

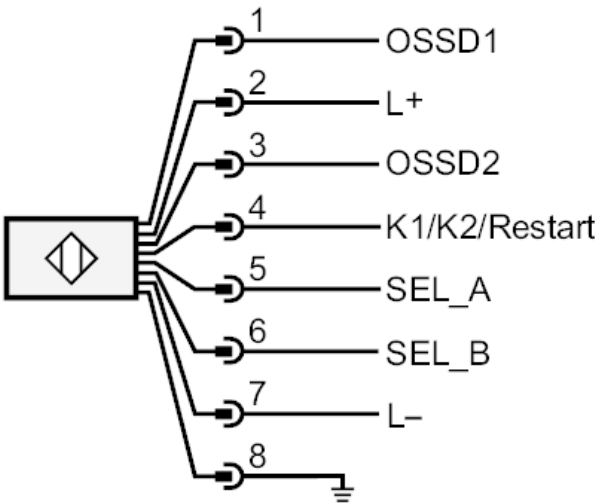
Remarks	
Pack quantity	1 pcs.

Electrical connection - receiver

Connector: 1 x M12; coding: A; Maximum cable length: 100 m; for wire cross-section 0.34 mm²



Connection



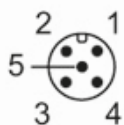


Safety light curtain

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Electrical connection - transmitter

Connector: 1 x M12; coding: A



Connection

