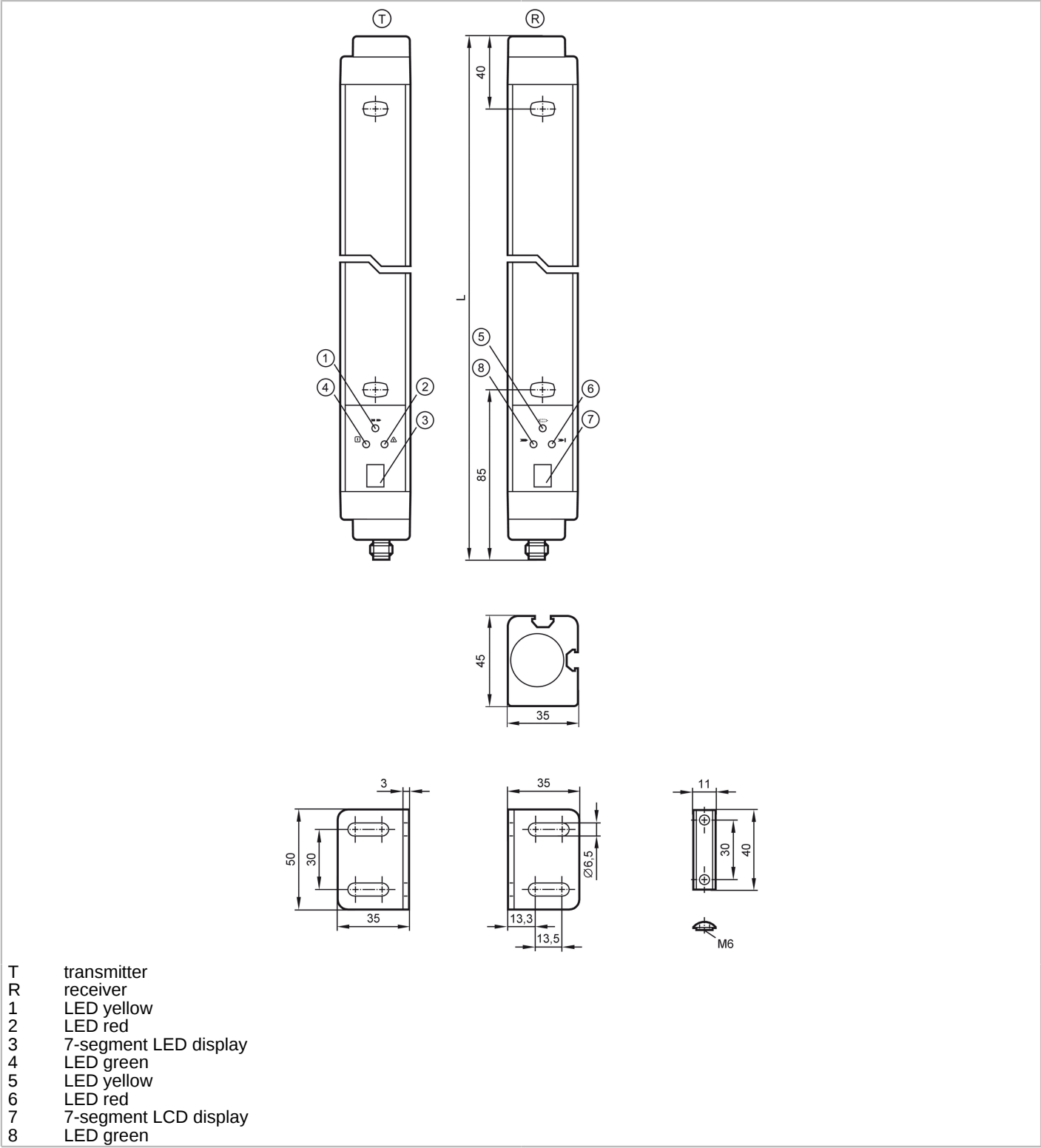




Safety light curtain

OYA0910-20-4-18-P-1-B

For 8-wire cordsets the core colors are not standardized.
Please note the wiring of the sensor and the cordsets (see data sheet).



Product characteristics

Type of light

Infrared light



Safety light curtain

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Electrical design	PNP
Protection	IP 65
Application	
Protective function	Access prevention hand protection
Electrical data	
Operating voltage tolerance [%]	20
Operating voltage [V]	24 DC
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 18
Type of light	Infrared light
Wave length [nm]	950
Receiver	
Current consumption [mA]	125
Transmitter	
Current consumption [mA]	83
Outputs	
Electrical design	PNP
Number of OSSD outputs	2
Max. current load per OSSD output [mA]	500; (24 V)
Short-circuit protection	yes
Monitoring range	
Protected area height [mm]	910
Resolution (detection capacity d) [mm]	20
Protection area width (low light intensity) [m]	0...6
Protection area width (high light intensity) [m]	3...18
Floating blanking	yes
Reaction times	
Response time [ms]	15.5
Operating conditions	
Applications	Class C to EN 60654-1 weatherproof application
Ambient temperature [°C]	0...55
Max. relative air humidity [%]	95
Protection	IP 65
Tests / approvals	
EMC	IEC 61496-1
Shock resistance	IEC 61496-1
Vibration resistance	IEC 61496-1
Safety classification	
ESPE type (IEC 61496-1)	4



Safety light curtain

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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]	1,8E-08

Mechanical data

Weight	[g]	5030
Dimensions	[mm]	1011 x 35 x 45
Material	housing: aluminum; front lens: PC	
Length L	[mm]	1011

Displays / operating elements

Display	transmitter	3 x LED
	transmitter	7-segment LCD display
	receiver	3 x LED
	receiver	7-segment LCD display

Accessories

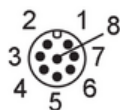
Items supplied	Assembly angle: 4	
	Slot nuts: 4	
	screws	

Remarks

Pack quantity	1 pcs.
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Electrical connection - receiver

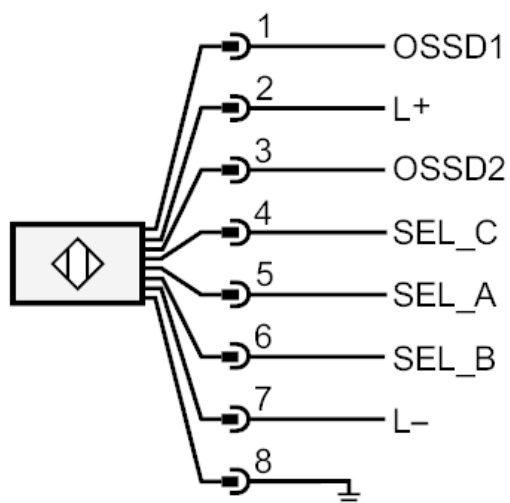
Connector: 1 x M12; coding: A; Contacts: 8; Maximum cable length: 100 m; for wire cross-section 0.34 mm²



Safety light curtain

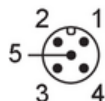
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Connection



Electrical connection - transmitter

Connector: 1 x M12; coding: A; Contacts: 5



Connection

