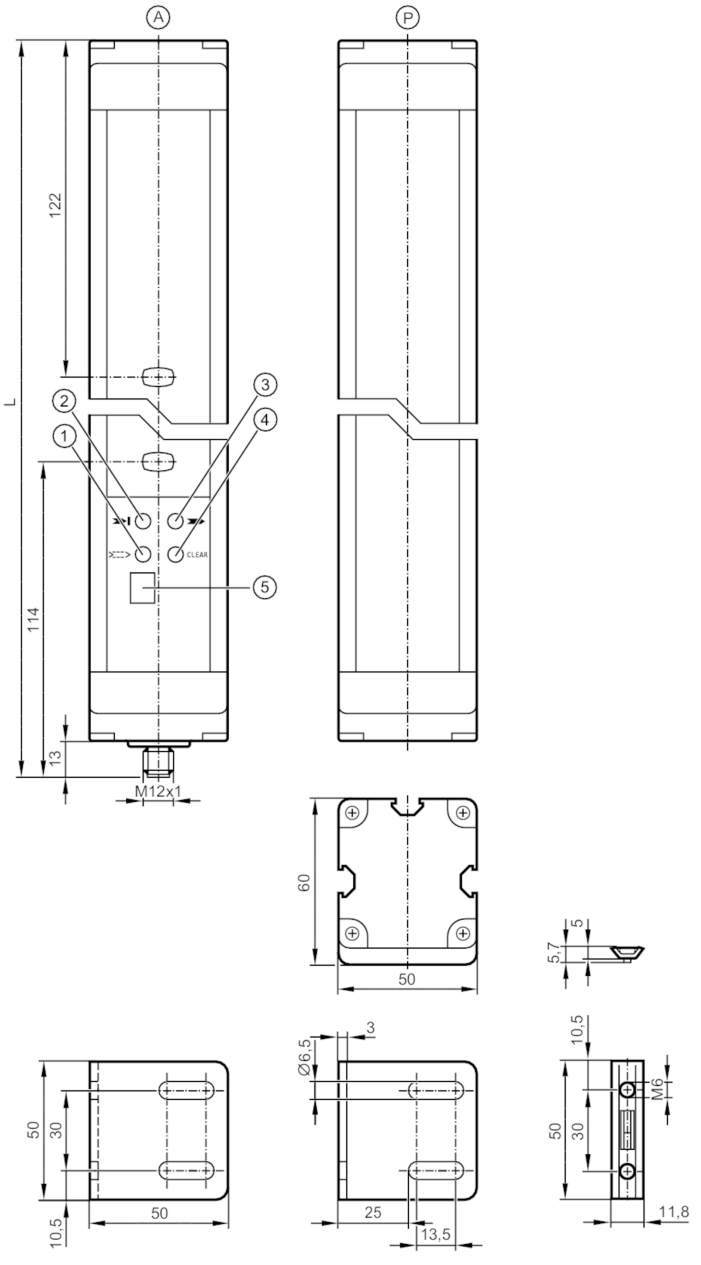
OY901S

Safety light grids

OYD0510-02-4-06-P-1

For 8-pole sockets the core colours are not standardised.
Please note the wiring of the sensor and the sockets (see data sheet).



A	active element
P	passive element
1	LED orange
2	LED red
3	LED green
4	LED yellow
5	display

Product characteristics

Type of light	infrared light
Electrical design	PNP

OY901S

Safety light grids

OYD0510-02-4-06-P-1

Protection		IP 65
Application		
Protective function		access prevention body protection
Electrical data		
Operating voltage tolerance	[%]	20
Operating voltage	[V]	24 DC
Current consumption	[mA]	250
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 10
Type of light		infrared light
Wave length	[nm]	950
Outputs		
Electrical design		PNP
Number of OSSD outputs		2
Max. current load per OSSD output	[mA]	500; (24 V)
Short-circuit protection		yes
Detection zone		
Protected area height	[mm]	510
Number of beams		2
Protection area width (low light intensity)	[m]	0...6
Protection area width (high light intensity)	[m]	0...6
Active/passive system		yes
Response times		
Response time	[ms]	10
Operating conditions		
Applications		class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-10...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
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]	4,8E-09

OY901S

Safety light grids

OYD0510-02-4-06-P-1

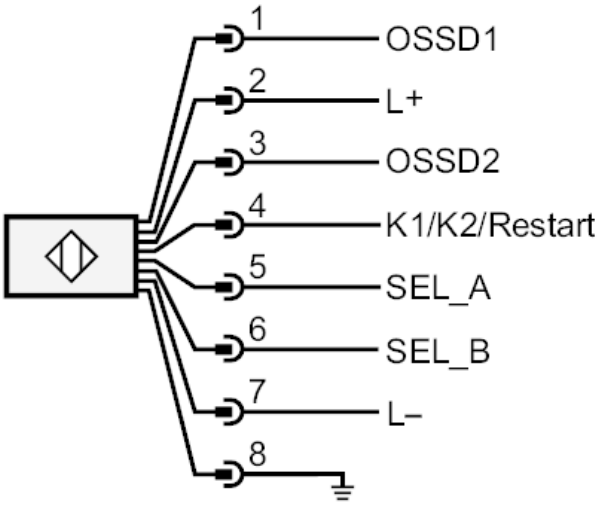
Mechanical data			
Weight	[g]	5170	
Dimensions	[mm]	736 x 50 x 60	
Materials		housing: aluminium; front pane: PC	
Length L	[mm]	736	

Displays / operating elements		
Display	transmitter	4 x LED
	transmitter	LC display

Accessories	
Items supplied	mounting bracket: 4
	slot nuts: 4

Remarks	
Pack quantity	1 pcs.

Electrical connection

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

Connection