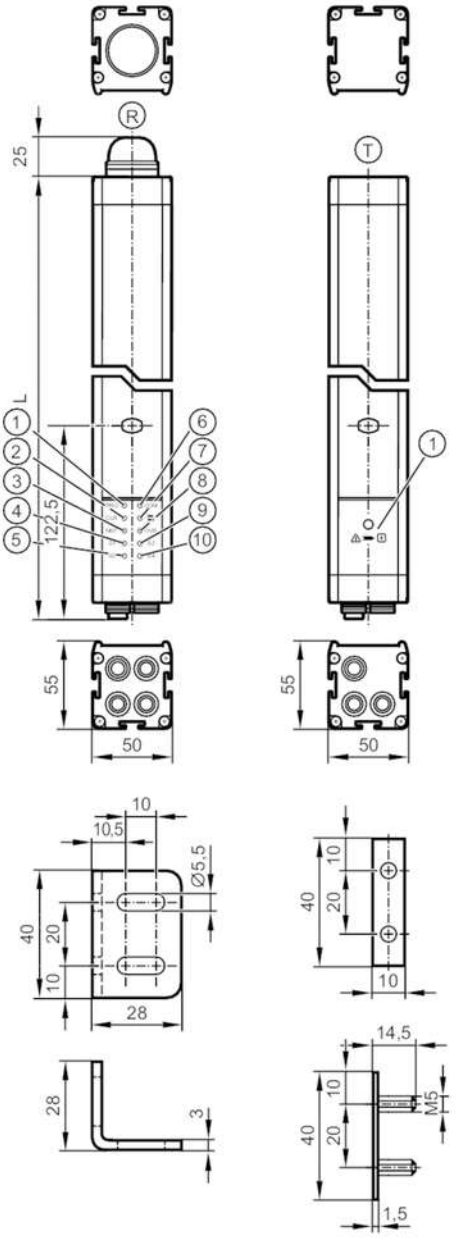
OY512S

Safety light grids

OYA810-03-4-12-P-4-M



T transmitter
1 LED three-colour red / yellow / green
-
R receiver
1 LED yellow
2 LED yellow
3 LED yellow
4 LED yellow
5 LED yellow
6 LED orange
7 LED 2-colour red/green
8 LED yellow
9 LED yellow
10 LED yellow

Product characteristics

Type of light	infrared light

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Safety light grids

OYA810-03-4-12-P-4-M

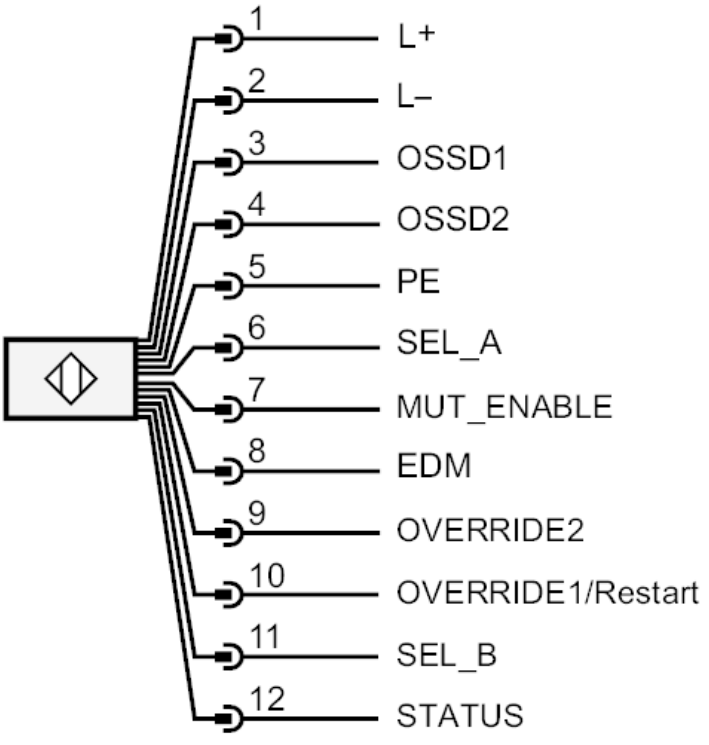
Electrical design		PNP
Protection		IP 65; IP 67
Electrical data		
Operating voltage	[V]	24 DC
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 10
Type of light		infrared light
Wave length	[nm]	950
Receiver		
Current consumption	[mA]	84
Transmitter		
Current consumption	[mA]	42
Outputs		
Electrical design		PNP
Number of OSSD outputs		2
Max. current load per OSSD output	[mA]	300; (24 V)
Short-circuit protection		yes
Detection zone		
Protected area height	[mm]	810
Number of beams		3
Protection area width (low light intensity)	[m]	0...4
Protection area width (high light intensity)	[m]	3...12
Response times		
Response time	[ms]	5.5
Operating conditions		
Applications		class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-30...55
Storage temperature	[°C]	-30...70
Max. relative air humidity	[%]	95; (non condensing)
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

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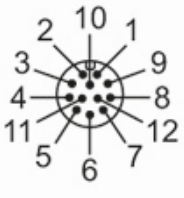
Safety light grids

OYA810-03-4-12-P-4-M

PFH	[1/h]	9E-09
Mechanical data		
Weight	[g]	6420
Dimensions	[mm]	985 x 50 x 55
Materials		housing: aluminium; front pane: PC
Length L	[mm]	985
Displays / operating elements		
Display	transmitter	1 x LED
	receiver	10 x LED
Accessories		
Items supplied		mounting bracket: 6
		slot nuts: 6
Remarks		
Pack quantity		1 pcs.
Electrical connection - receiver		
Connection		



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



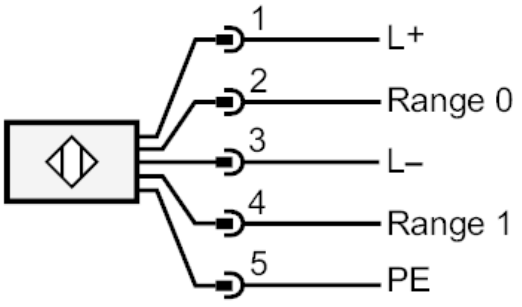
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Safety light grids

OYA810-03-4-12-P-4-M

Electrical connection - transmitter

Connection



Connector: 1 x M12; coding: A

