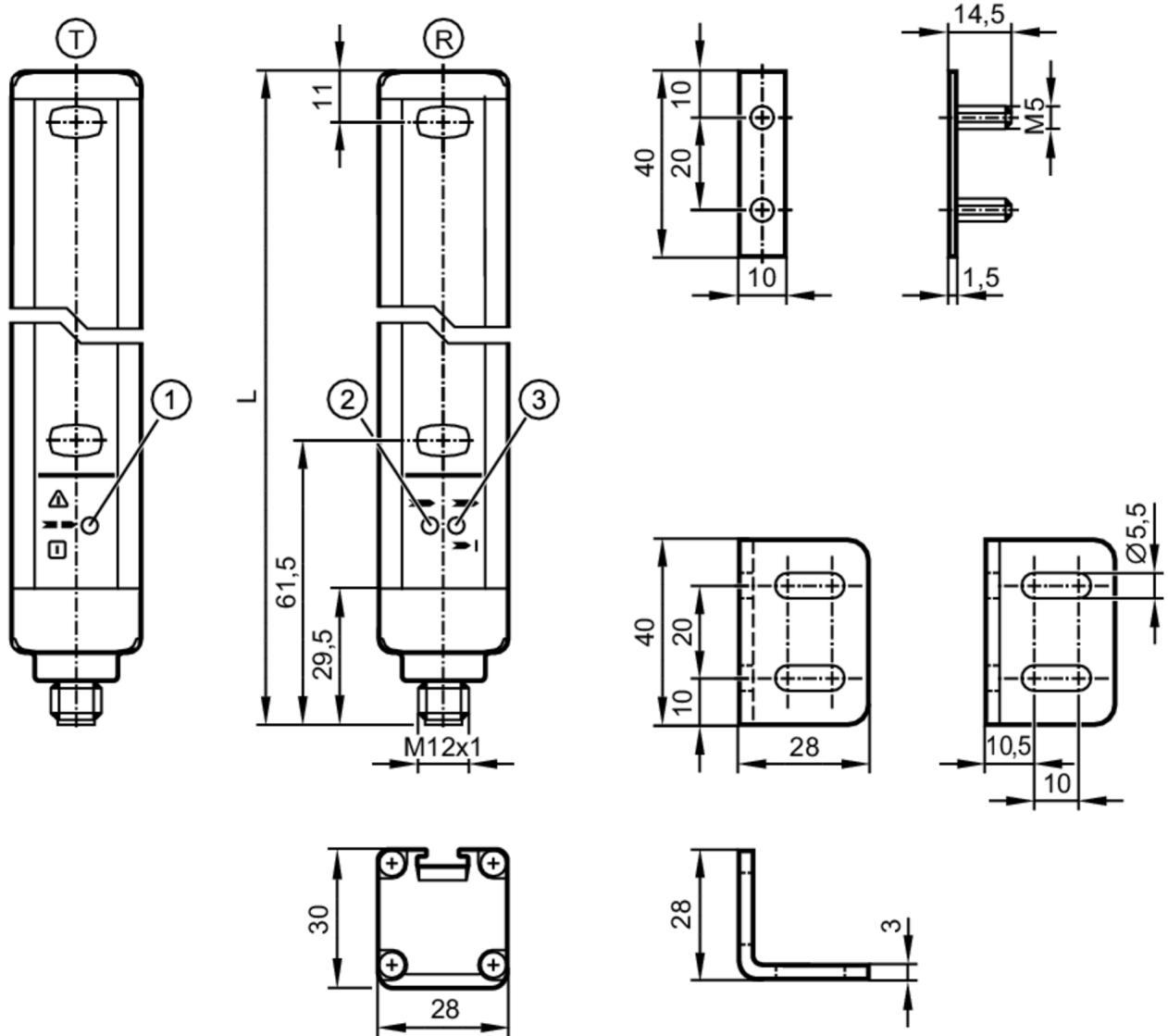


OY454S



Safety light curtain

OYA1810-30-4-12-P-1



T	transmitter
R	receiver
1	LED three-colour red / green / orange
2	LED yellow
3	LED 2-colour red/green



Application

Protective function

access prevention hand protection



Safety light curtain

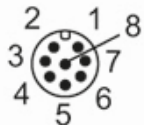
OYA1810-30-4-12-P-1

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]	1810
Resolution (detection capacity d)	[mm]	30
Protection area width (low light intensity)	[m]	0...4
Protection area width (high light intensity)	[m]	3...12
Response times		
Response time	[ms]	22
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		
ISO 13849-1		category: 4, PL: e
IEC 61508		SIL 3
IEC 62061		SILCL 3
Mission time TM	[h]	175200
Safety-related reliability PFHD	[1/h]	2.02E-08



Safety light curtain

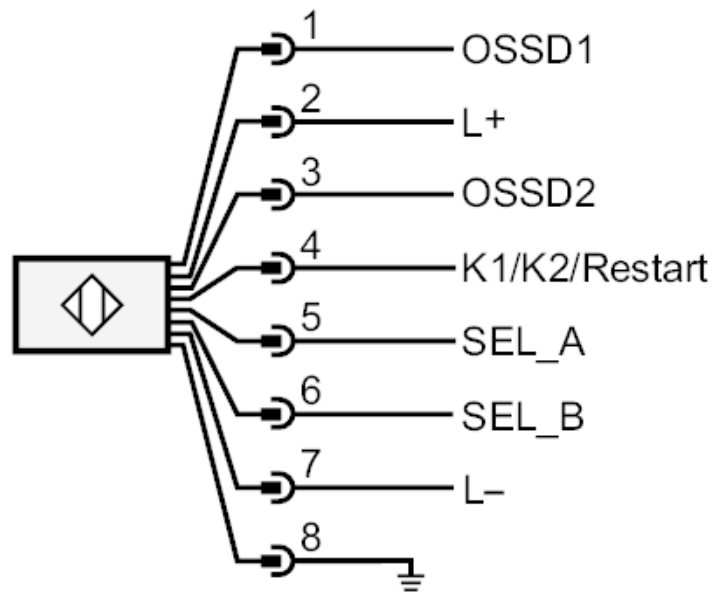
OYA1810-30-4-12-P-1

Mechanical data		
Weight	[g]	5926.2
Dimensions	[mm]	1863 x 28 x 30
Materials		housing: aluminium; front lens: PC
Length L	[mm]	1863
Displays / operating elements		
Display	transmitter	1 LED
	receiver	2 LED
Accessories		
Accessories (supplied)	mounting bracket: 6	
	slot nuts: 6	
	Nuts	
Remarks		
Notes	For 8-pole sockets the core colours are not standardised.; Please note the wiring of the sensor and the sockets (see data sheet).	
Pack quantity	1 pcs.	
Electrical connection - receiver		
Connector: 1 x M12; Maximum cable length: 100 m; for wire cross-section 0.34 mm²		
		

Safety light curtain

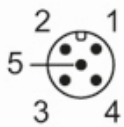
OYA1810-30-4-12-P-1

Connection



Electrical connection - transmitter

Connector: 1 x M12



OY454S

Safety light curtain

OYA1810-30-4-12-P-1



Connection

