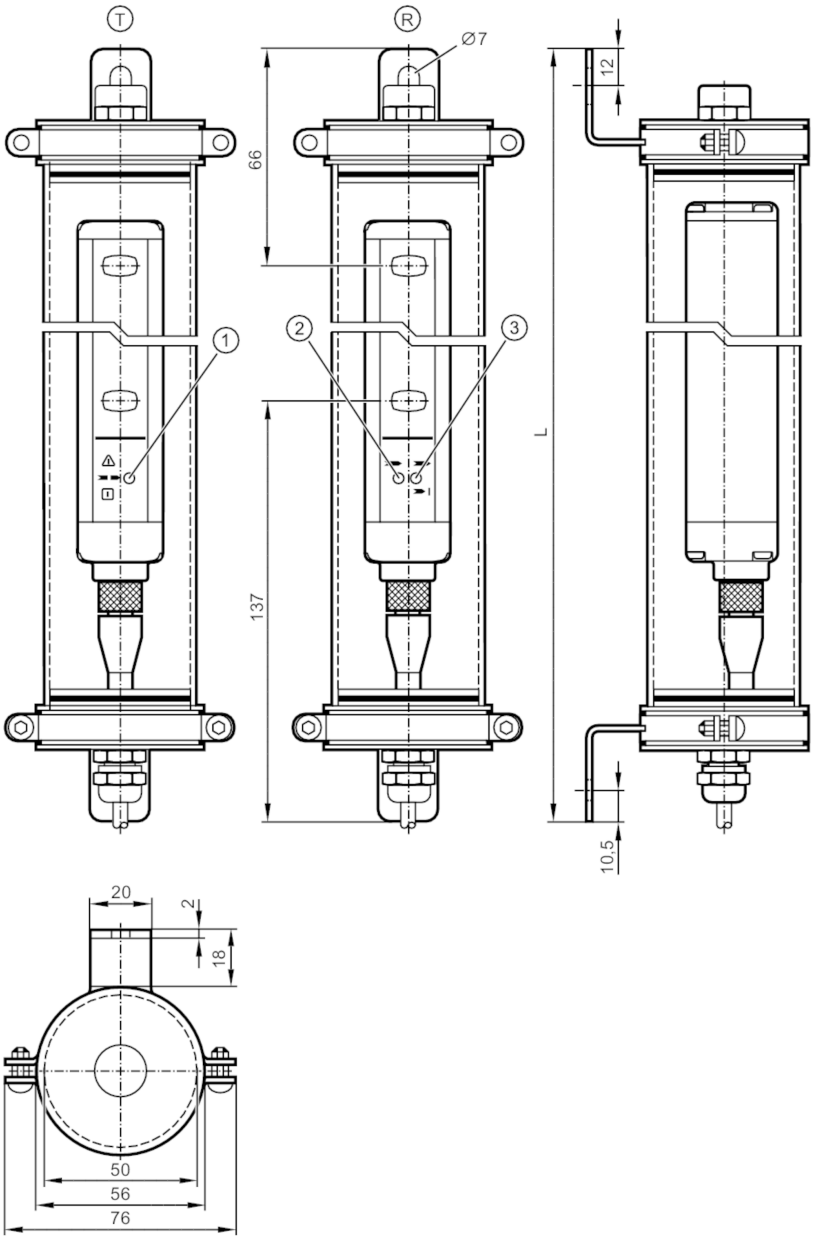
OY435S

Safety light curtain

OYA0760-30-2-09-P-1-A



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

Product characteristics	
Type of light	Infrared light
Electrical design	PNP
Protection	IP 65; IP 67; IP 69K; (with protective tube: IP 69K)
Application	
Protective function	Access prevention hand protection

OY435S

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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
Current consumption heating	[mA]	375
Transmitter		
Current consumption	[mA]	42
Current consumption heating	[mA]	375
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]	760
Resolution (detection capacity d)	[mm]	30
Protection area width (low light intensity)	[m]	0...3
Protection area width (high light intensity)	[m]	2...10
Reaction times		
Response time	[ms]	11
Operating conditions		
Ambient temperature	[°C]	-20...55
Max. relative air humidity	[%]	95
Protection		IP 65; IP 67; IP 69K; (with protective tube: IP 69K)
Tests / approvals		
EMC		IEC 61496-1
Shock resistance		IEC 61496-1
Vibration resistance		IEC 61496-1
Safety classification		
ESPE type (IEC 61496-1)		2
Complies with the requirements		ISO 13849-1: 2015 Category 2, PL c
		IEC 62061 SIL 1
MIssion time TM	[h]	175200
PFH	[1/h]	4,5E-08

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Mechanical data		
Weight	[g]	5275
Dimensions	[mm]	937 x 76 x 74
Material		protective tube: PMMA transparent; Protective cap: POM; clamp: stainless steel (1.4404 / 316L); sealing: silicone
Length L	[mm]	937

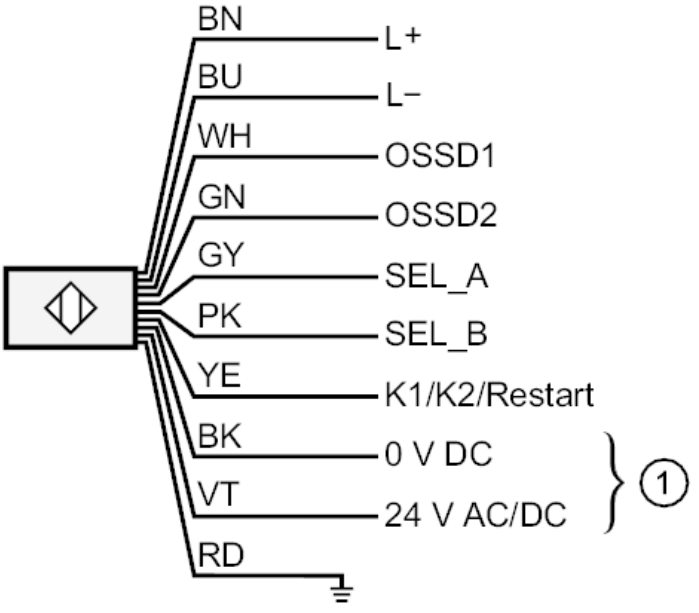
Displays / operating elements		
Display	transmitter	1 x LED
	receiver	2 x LED

Remarks	
Pack quantity	1 pcs.

Electrical connection - receiver

Cable: 15 m, PVC; Maximum cable length: 100 m; 10 x 0.34 mm²

Connection



1: Heating
Core colors :
BK = black
BN = brown
BU = blue
GN = green
GY = grey
PK = pink
RD = red
VT = lilac
WH = white
YE = yellow

OY435S

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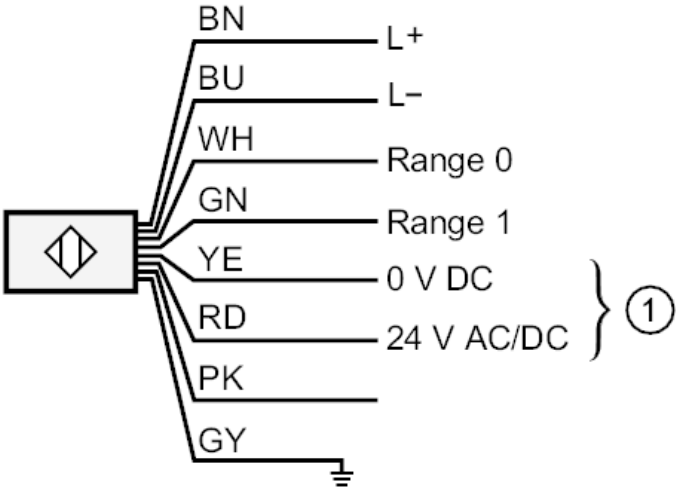
OYA0760-30-2-09-P-1-A

Electrical connection - transmitter

Cable: 15 m, PVC; 8 x 0.34 mm²

Connection



1:	Heating
PK:	not used
	Core colors :
BN =	brown
BU =	blue
GN =	green
GY =	grey
PK =	pink
RD =	red
WH =	white
YE =	yellow