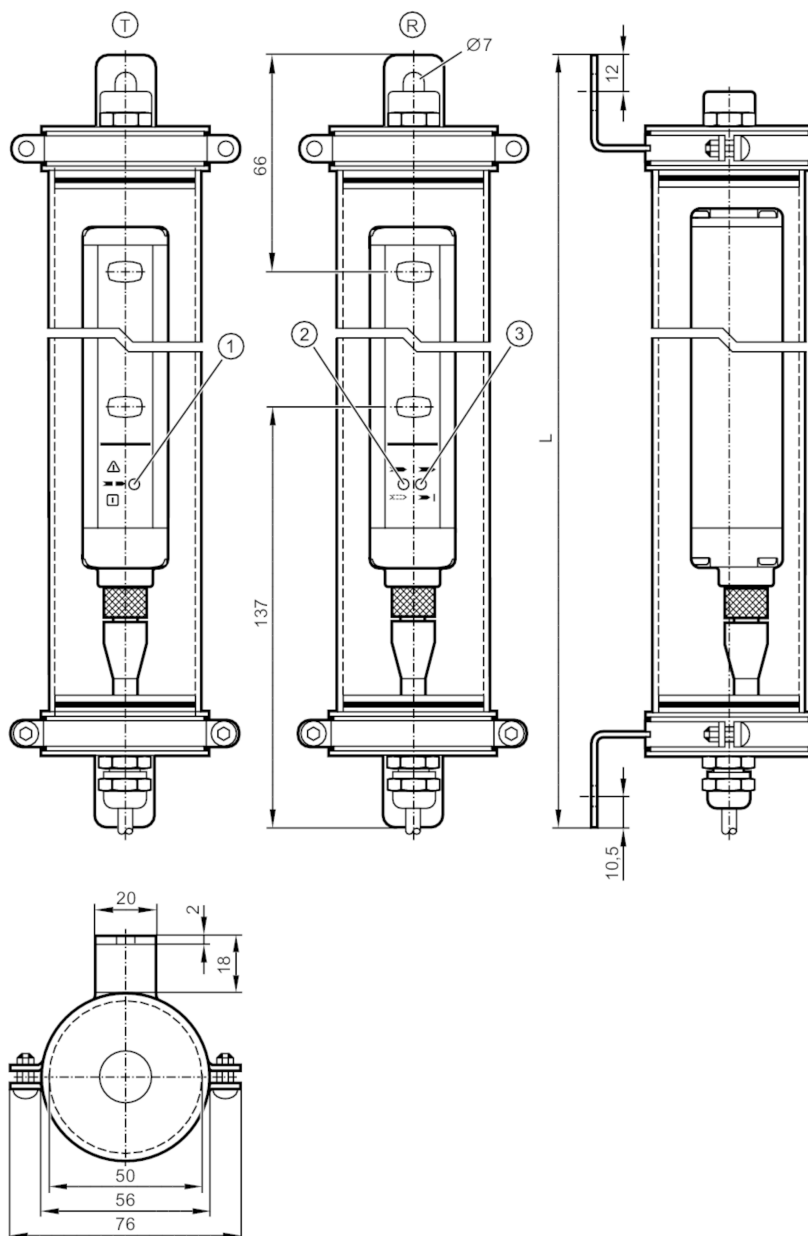


OY451S



Safety light curtain

OYA1660-40-4-15-P-1-A



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



Product characteristics

Type of light	infrared light
Dimensions [mm]	Ø 56

Application

Protective function	access prevention hand protection
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OY451S



Safety light curtain

OYA1660-40-4-15-P-1-A

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]		417
Transmitter		
Current consumption [mA]		42
Current consumption heating [mA]		417
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]		1660
Resolution (detection capacity d) [mm]		40
Protection area width (low light intensity) [m]		0...7
Protection area width (high light intensity) [m]		3...15
Response times		
Response time [ms]		14
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	

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Safety light curtain

OYA1660-40-4-15-P-1-A

Safety classification		
ESPE type (IEC 61496-1)		4
ISO 13849-1		category 4, PL e
IEC 61508		SIL 3
IEC 62061		SIL cl 3
Mission time TM	[h]	175200
Safety-related reliability PFHD	[1/h]	1.5E-08
Mechanical data		
Weight	[g]	4500
Dimensions	[mm]	Ø 56
Materials		thermowell: PMMA transparent; Protective cap: POM; clamp: stainless steel (1.4404 / 316L); Sealing: silicone
Length L	[mm]	1833
Displays / operating elements		
Display	transmitter	1 LED
	receiver	2 LED
Remarks		
Pack quantity		1 pcs.

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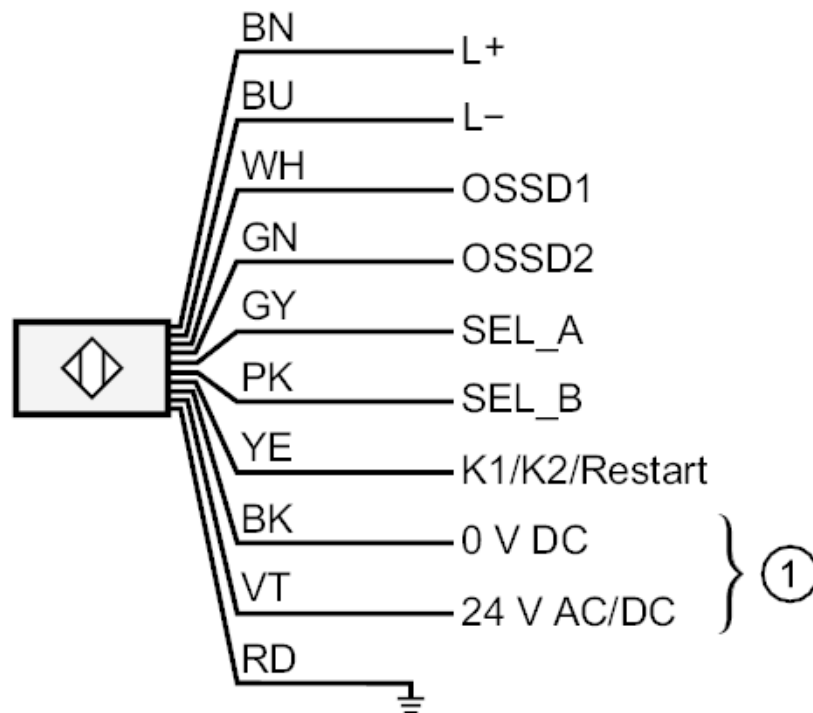
Safety light curtain

OYA1660-40-4-15-P-1-A

Electrical connection - receiver

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

Connection



1: heating

Core colours :

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

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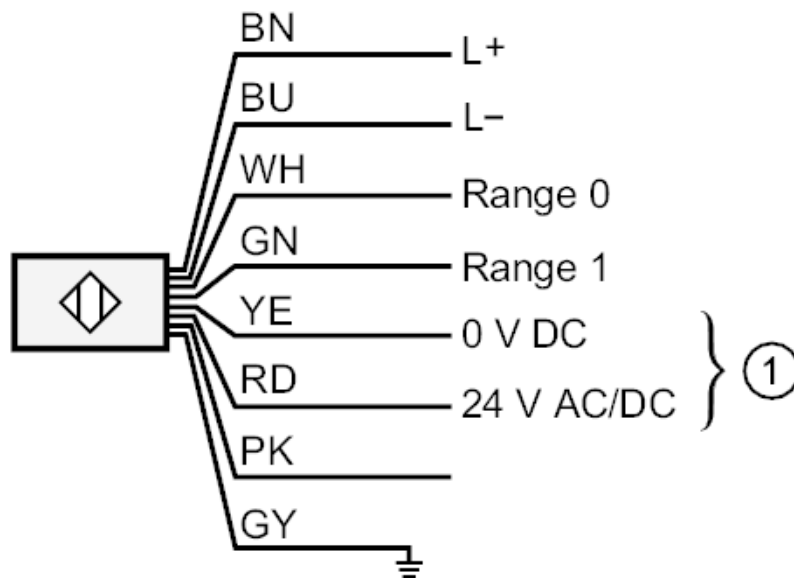
Safety light curtain

OYA1660-40-4-15-P-1-A

Electrical connection - transmitter

Cable: 15 m, PVC; 8 x 0.34 mm²

Connection



1: heating

PK: not used

Core colours :

BN = brown

BU = blue

GN = green

GY = grey

PK = pink

RD = red

WH = white

YE = yellow