

OY442S



Safety light curtain

OYA0310-30-4-15-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
Dimensions [mm]	Ø 56 / L = 487

Application

Protective function	Access prevention hand protection
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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]	167
Transmitter		
Current consumption	[mA]	42
Current consumption heating	[mA]	167
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]	310
Resolution (detection capacity d)	[mm]	30
Protection area width (low light intensity)	[m]	0...7
Protection area width (high light intensity)	[m]	3...15
Reaction times		
Response time	[ms]	4
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 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]	1.0E-08
Mechanical data		
Weight	[g]	6425
Dimensions	[mm]	Ø 56 / L = 487
Material	protective tube: PMMA transparent; Protective cap: POM; clamp: stainless steel (1.4404 / 316L); sealing: silicone	
Length L	[mm]	487
Displays / operating elements		
Display	transmitter	1 x LED
	receiver	2 x LED
Remarks		
Pack quantity	1 pcs.	



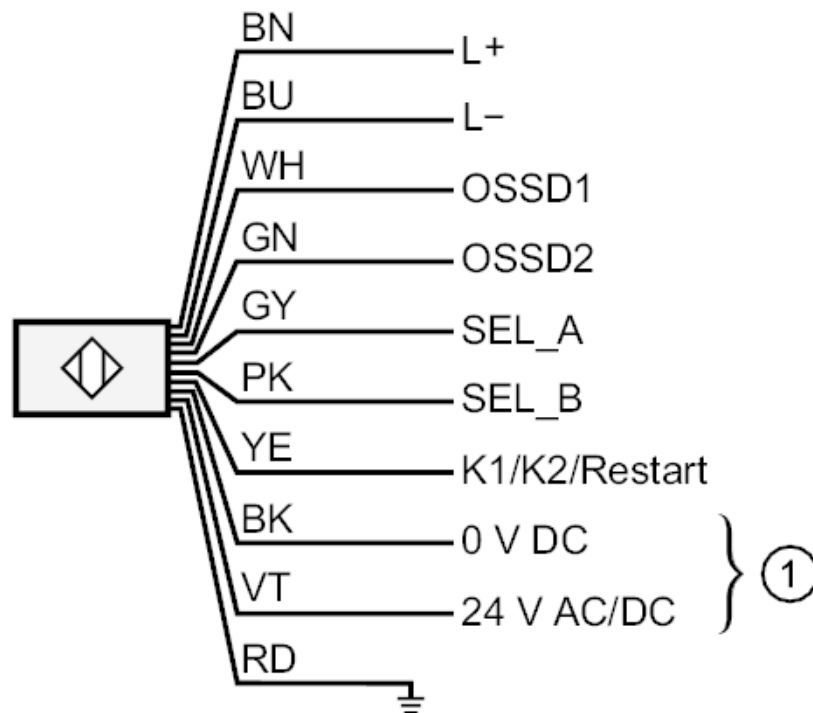
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OYA0310-30-4-15-P-1-A

Electrical connection - receiver

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

Connection



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

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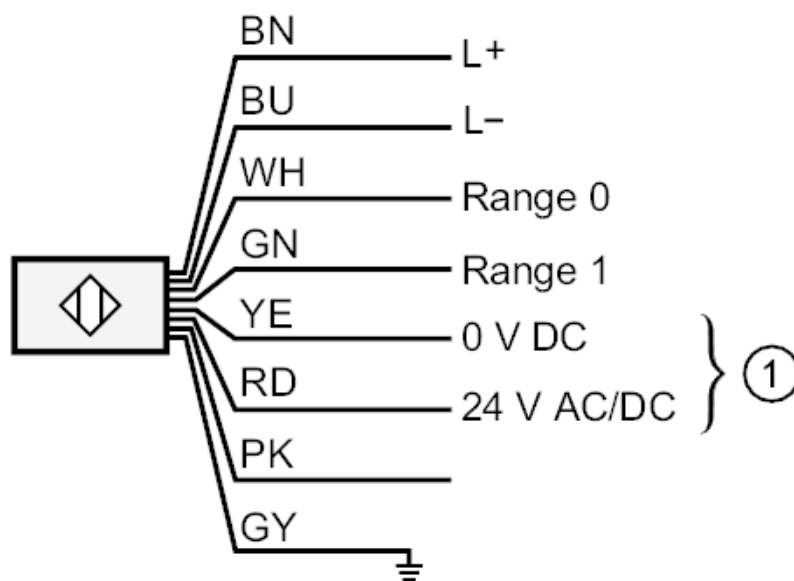
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OYA0310-30-4-15-P-1-A

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