

# OY437S



## Safety light curtain

OYA1060-30-2-09-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



### 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]        | 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]        | 1060                                                 |
| Resolution (detection capacity d)            | [mm]        | 30                                                   |
| Protection area width (low light intensity)  | [m]         | 0...3                                                |
| Protection area width (high light intensity) | [m]         | 2...10                                               |
| Response times                               |             |                                                      |
| Response time                                | [ms]        | 14.5                                                 |
| 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                        |             |                                                      |
| ISO 13849-1                                  |             | category: 2, PL: c                                   |
| IEC 62061                                    |             | SILCL 1                                              |
| Mission time TM                              | [h]         | 175200                                               |
| Safety-related reliability PFHD              | [1/h]       | 5.8E-08                                              |

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| Mechanical data               |                                                                                                                 |       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------|-------|
| Weight                        | [g]                                                                                                             | 6560  |
| Dimensions                    | [mm]                                                                                                            | Ø 56  |
| Materials                     | thermowell: PMMA transparent; Protective cap: POM;<br>clamp: stainless steel (1.4404 / 316L); Sealing: silicone |       |
| Length L                      | [mm]                                                                                                            | 1237  |
| Displays / operating elements |                                                                                                                 |       |
| Display                       | transmitter                                                                                                     | 1 LED |
|                               | receiver                                                                                                        | 2 LED |
| Electrical connection         |                                                                                                                 |       |
| Connection                    | transmitter / receiver                                                                                          |       |
| Remarks                       |                                                                                                                 |       |
| Pack quantity                 | 1 pcs.                                                                                                          |       |



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### Electrical connection - receiver

Cable: 15 m, PVC; Maximum cable length: 100 m; 10 x 0.34 mm<sup>2</sup>

### 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 |

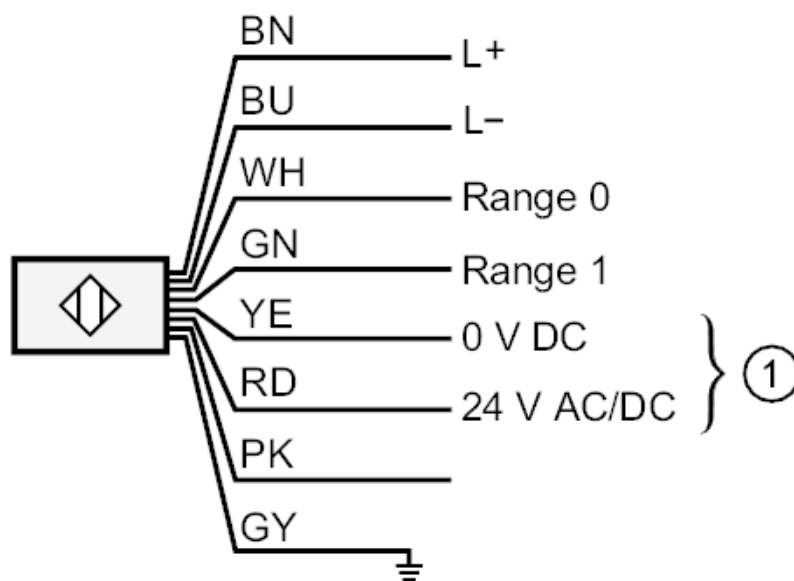
## Safety light curtain

OYA1060-30-2-09-P-1-A

### Electrical connection - transmitter

Cable: 15 m, PVC; 8 x 0.34 mm<sup>2</sup>

### Connection



1: heating

PK: not used

Core colours :

BN = brown

BU = blue

GN = green

GY = grey

PK = pink

RD = red

WH = white

YE = yellow