

# OY053S



## Safety light curtain

OYA0460-40-2-12-P-1



### Product characteristics

|                 |                |
|-----------------|----------------|
| Type of light   | infrared light |
| Dimensions [mm] | 513 x 28 x 30  |

### 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   |
| 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]  | 460  |
| Resolution (detection capacity d)            | [mm]  | 40   |
| Protection area width (low light intensity)  | [m]   | 0...4  |
| Protection area width (high light intensity) | [m]   | 3...12   |
| Response times                               |       |  |
| Response time                                | [ms]  | 6  |
| 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                        |       |  |
| ESPE type (IEC 61496-1)                      |       | 2  |
| ISO 13849-1                                  |       | category 2, PL c                               |
| IEC 62061                                    |       | SIL cl 1                                       |
| Mission time TM                              | [h]   | 175200   |
| Safety-related reliability PFHD              | [1/h] | 2.7E-08  |

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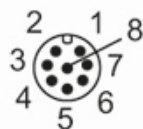
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| Mechanical data               |   |                                    |
|-------------------------------|---|------------------------------------|
| Weight                        | [g]   | 2280                               |
| Dimensions                    | [mm]  | 513 x 28 x 30                      |
| Materials                     |   | housing: aluminium; front lens: PC |
| Length L                      | [mm]  | 513                                |
| Displays / operating elements |   |                                    |
| Display                       | transmitter   | 1 x LED                            |
|                               | receiver  | 2 x LED                            |
| Accessories                   |   |                                    |
| Accessories (supplied)        | mounting bracket: 4   |                                    |
|                               | slot nuts: 4  |                                    |
|                               | 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 mm<sup>2</sup>



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### Connection



### Electrical connection - transmitter

Connector: 1 x M12



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### Connection

