

OYA0160-14-4-06-P-1

Technical drawing of a 12V/20Ah battery, showing front, side, and detail views with dimensions in mm.

**Front View (Left):** Shows the battery terminals (T) and a label (1) with a warning symbol.

**Side View (Top):** Shows the battery terminals (R) and dimensions: 11 mm (terminal height), 61,5 mm (total height), 29,5 mm (terminal base height), and M12x1 (terminal thread).

**Side View (Bottom):** Shows the battery terminals (R) and dimensions: 11 mm (terminal height), 61,5 mm (total height), 29,5 mm (terminal base height), and M12x1 (terminal thread).

**Top View (Right):** Shows the battery terminals (R) and dimensions: 14,5 mm (terminal width), M5 (terminal thread), 1,5 mm (terminal base width), 40 mm (total width), 20 mm (terminal base width), and 10 mm (terminal base height).

**Bottom View (Left):** Shows the battery terminals (R) and dimensions: 30 mm (total width), 28 mm (terminal base width), and 10 mm (terminal base height).

**Bottom View (Right):** Shows the battery terminals (R) and dimensions: 28 mm (total width), 10,5 mm (terminal base width), 10 mm (terminal base height), and Ø5,5 (terminal base diameter).

- CE  UKCA

|                   |                |
|-------------------|----------------|
| Type of light     | Infrared light |
| Electrical design | PNP            |
| Protection        | IP 65; IP 67   |

| Protective function | Access prevention finger protection |
|---------------------|-------------------------------------|
|---------------------|-------------------------------------|



## Safety light curtain

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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                                            |
| Monitoring range                             |             |                                                |
| Protected area height                        | [mm]        | 160                                            |
| Resolution (detection capacity d)            | [mm]        | 14                                             |
| Protection area width (low light intensity)  | [m]         | 0...3                                          |
| Protection area width (high light intensity) | [m]         | 1...6                                          |
| Reaction times                               |             |                                                |
| Response time                                | [ms]        | 4                                              |
| Operating conditions                         |             |                                                |
| Applications                                 |             | Class C to EN 60654-1 weatherproof application |
| Ambient temperature                          | [°C]        | -10...55                                       |
| 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)                      |             | 4                                              |
| Complies with the requirements               |             | ISO 13849-1: 2015 Category 4, PL e             |
|                                              |             | IEC 61508 SIL 3                                |
|                                              |             | IEC 62061 SIL 3                                |
| Mission time TM                              | [h]         | 175200                                         |
| PFH                                          | [1/h]       | 1,0E-08                                        |



Safety light curtain

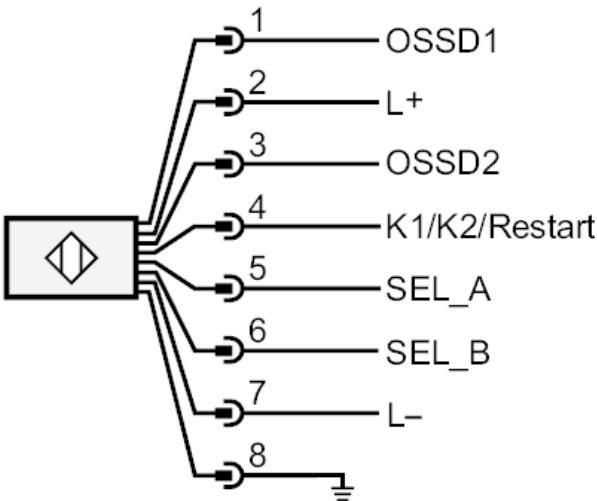
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| Mechanical data                  |      |                                   |
|----------------------------------|------|-----------------------------------|
| Weight                           | [g]  | 1270                              |
| Dimensions                       | [mm] | 213 x 28 x 30                     |
| Material                         |      | housing: aluminum; front lens: PC |
| Length L                         | [mm] | 213                               |
| Displays / operating elements    |      |                                   |
| Display                          |      | LED, yellow                       |
|                                  |      | LED, green                        |
|                                  |      | LED, red                          |
|                                  |      | LED, blue                         |
|                                  |      | LED, orange                       |
| Accessories                      |      |                                   |
| Items supplied                   |      | Assembly angle: 4                 |
|                                  |      | Slot nuts: 4                      |
|                                  |      | Nuts                              |
| Remarks                          |      |                                   |
| Pack quantity                    |      | 1 pcs.                            |
| Electrical connection - receiver |      |                                   |

Connector: 1 x M12; coding: A; Maximum cable length: 100 m; for wire cross-section 0.34 mm²



Connection



# OY001S



## Safety light curtain

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### Electrical connection - transmitter

Connector: 1 x M12; coding: A



### Connection

