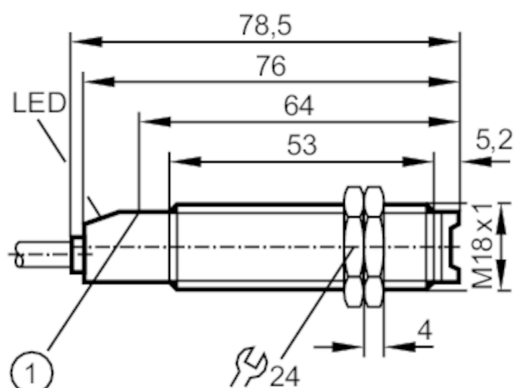


## Through-beam sensor receiver

OGE-DBOA



1 pushbutton



## Product characteristics

|               |                |
|---------------|----------------|
| Type of light | infrared light |
| Housing       | threaded type  |

## Application

|                    |                     |
|--------------------|---------------------|
| Function principle | Through-beam sensor |
|--------------------|---------------------|

## Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Frequency AC                | [Hz] | 47...63        |
| Operating voltage           | [V]  | 20...250 AC/DC |
| Protection class            |      | II             |
| Reverse polarity protection |      | no             |
| Type of light               |      | infrared light |
| Wave length                 | [nm] | 880            |

## Outputs

|                                                 |      |                       |
|-------------------------------------------------|------|-----------------------|
| Output function                                 |      | dark-on mode          |
| Max. voltage drop switching output DC           | [V]  | 8                     |
| Max. voltage drop switching output AC           | [V]  | 8                     |
| Minimum load current                            | [mA] | 5                     |
| Max. leakage current                            | [mA] | 1.7                   |
| Permanent current rating of switching output AC | [mA] | 90; (180 (...40 °C))  |
| Permanent current rating of switching output DC | [mA] | 90; (180 (...40 °C))  |
| Short-time current rating of switching output   | [mA] | 600; (20 ms / 0,5 Hz) |
| Switching frequency AC                          | [Hz] | 25                    |
| Switching frequency DC                          | [Hz] | 25                    |
| Short-circuit proof                             |      | no                    |
| Overload protection                             |      | no                    |



## Through-beam sensor receiver

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| Detection zone                |                  |                                                                               |
|-------------------------------|------------------|-------------------------------------------------------------------------------|
| Transmitter / receiver        |                  | receiver                                                                      |
| Range                         | [m]              | < 15                                                                          |
| Range adjustable              |                  | yes                                                                           |
| Operating conditions          |                  |                                                                               |
| Ambient temperature           | [°C]             | -25...80                                                                      |
| Protection                    |                  | IP 67                                                                         |
| Tests / approvals             |                  |                                                                               |
| EMC                           | EN 60947-5-2     |                                                                               |
|                               | EN 55011         | class B                                                                       |
| MTTF                          | [years]          | 334                                                                           |
| Mechanical data               |                  |                                                                               |
| Weight                        | [g]              | 122.7                                                                         |
| Housing                       |                  | threaded type                                                                 |
| Dimensions                    | [mm]             | M18 x 1 / L = 78.5                                                            |
| Thread designation            |                  | M18 x 1                                                                       |
| Materials                     |                  | PBT                                                                           |
| Lens material                 |                  | PMMA                                                                          |
| Displays / operating elements |                  |                                                                               |
| Display                       | switching status | 1 x LED, red                                                                  |
|                               | function         | 1 x LED, red flashing                                                         |
| Electrical connection         |                  |                                                                               |
| Required protection           |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                      |
| Accessories                   |                  |                                                                               |
| Items supplied                |                  | lock nuts: 2                                                                  |
| Remarks                       |                  |                                                                               |
| Remarks                       |                  | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity                 |                  | 1 pcs.                                                                        |



## Through-beam sensor receiver

OGE-DBOA

## Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm<sup>2</sup>

## Connection



Note : miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Core colours :

BN = brown  
BU = blue

## Diagrams and graphs

excess gain graph

