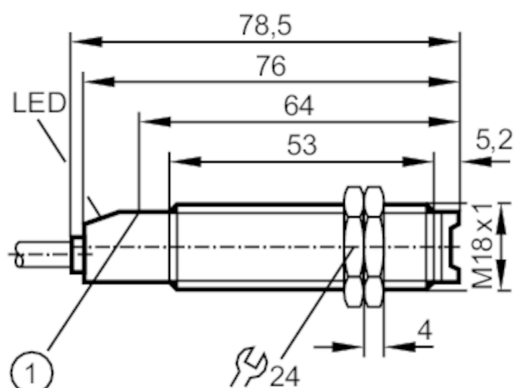


## Retro-reflective sensor

OGP-DBOA



1 pushbutton



## Product characteristics

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

## Application

|                    |                         |
|--------------------|-------------------------|
| Special feature    | polarisation filter     |
| Function principle | Retro-reflective 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               |      | red light      |
| Wave length                 | [nm] | 660            |

## 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                    |



## Retro-reflective sensor

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| Detection zone                        |                  |                                                                               |
|---------------------------------------|------------------|-------------------------------------------------------------------------------|
| Range referred to prismatic reflector | [m]              | 3; (Prismatic reflector Ø 80 E20005)                                          |
| Range adjustable                      |                  | yes                                                                           |
| Max. light spot diameter              | [mm]             | 262                                                                           |
| Light spot dimensions refer to        |                  | at maximum range                                                              |
| Polarisation filter available         |                  | yes                                                                           |
| Operating conditions                  |                  |                                                                               |
| Ambient temperature                   | [°C]             | -25...80                                                                      |
| Protection                            |                  | IP 67                                                                         |
| Tests / approvals                     |                  |                                                                               |
| EMC                                   | EN 60947-5-2     |                                                                               |
|                                       | EN 55011         | class B                                                                       |
| MTTF                                  | [years]          | 339                                                                           |
| Mechanical data                       |                  |                                                                               |
| Weight                                | [g]              | 122.6                                                                         |
| 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.                                                                        |

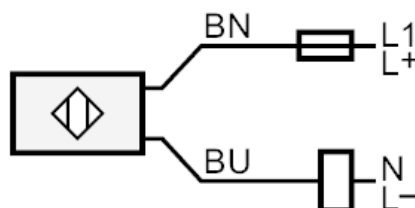
## Retro-reflective sensor

OGP-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

