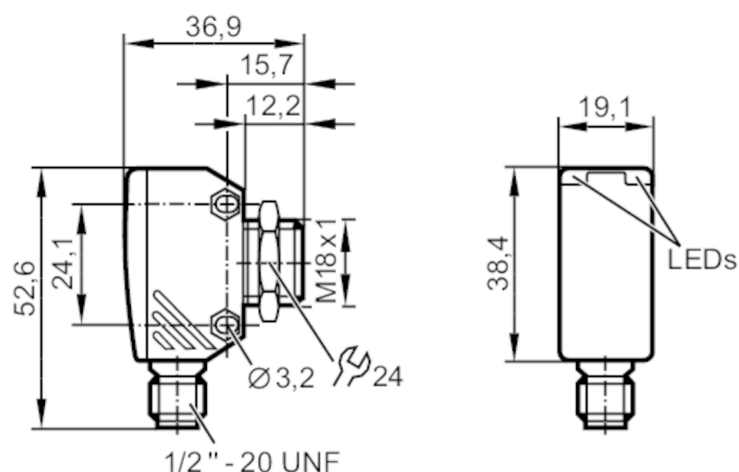




## Diffuse reflection sensor with background suppression

OGH-DBOW/LS/CUBE/100MM



### Application

|                    |                           |
|--------------------|---------------------------|
| Function principle | Diffuse reflection sensor |
|--------------------|---------------------------|

### Electrical data

|                   |      |                        |
|-------------------|------|------------------------|
| Frequency AC      | [Hz] | 47...63                |
| Operating voltage | [V]  | 20...250 AC            |
| Protection class  |      | II; (double insulated) |
| Type of light     |      | red light              |
| Wave length       | [nm] | 633                    |

### Outputs

|                                                 |      |                        |
|-------------------------------------------------|------|------------------------|
| Output function                                 |      | dark-on mode           |
| 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] | 150; (200 (...40 °C))  |
| Short-time current rating of switching output   | [mA] | 1200; (20 ms / 0,5 Hz) |
| Switching frequency AC                          | [Hz] | 20                     |
| Short-circuit protection                        |      | no                     |
| Overload protection                             |      | no                     |

### Detection zone

|                                  |      |                                                  |
|----------------------------------|------|--------------------------------------------------|
| Range                            | [mm] | < 100; (white paper 200 x 200 mm 90 % remission) |
| Range adjustable                 |      | no                                               |
| Max. light spot diameter         | [mm] | 11                                               |
| Light spot dimensions refer to   |      | at maximum range                                 |
| Background suppression available |      | yes                                              |



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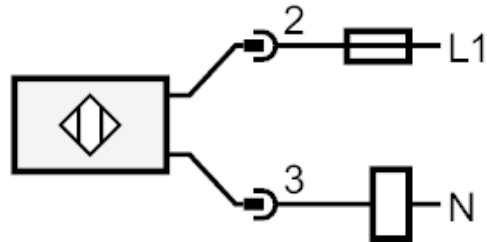
| Operating conditions                                                                |                   |                                                          |
|-------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------|
| Ambient temperature                                                                 | [°C]              | -25...60                                                 |
| Protection                                                                          |                   | IP 67                                                    |
| Tests / approvals                                                                   |                   |                                                          |
| EMC                                                                                 | EN 60947-5-2      |                                                          |
|                                                                                     | EN 55011 emission | class B                                                  |
| MTTF                                                                                | [years]           | 334                                                      |
| Mechanical data                                                                     |                   |                                                          |
| Weight                                                                              | [g]               | 60.8                                                     |
| Housing                                                                             |                   | rectangular                                              |
| Dimensions                                                                          | [mm]              | M18 x 1                                                  |
| Thread designation                                                                  |                   | M18 x 1                                                  |
| Materials                                                                           |                   | diecast zinc; PEI                                        |
| Lens material                                                                       |                   | PMMA                                                     |
| Lens alignment                                                                      |                   | side lens                                                |
| Displays / operating elements                                                       |                   |                                                          |
| Display                                                                             | switching status  | 1 x LED, yellow                                          |
| Electrical connection                                                               |                   |                                                          |
| Required protection                                                                 |                   | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting |
| Accessories                                                                         |                   |                                                          |
| Accessories (supplied)                                                              |                   | lock nut: 1 x                                            |
| Remarks                                                                             |                   |                                                          |
| Remarks                                                                             |                   | Do not connect without a load.                           |
| Pack quantity                                                                       |                   | 1 pcs.                                                   |
| Electrical connection                                                               |                   |                                                          |
| Connector: 1 x 1/2"                                                                 |                   |                                                          |
|  |                   |                                                          |



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### Connection



Note : miniature fuse to IEC60127-2 sheet 1  $\leq 2$  A fast acting