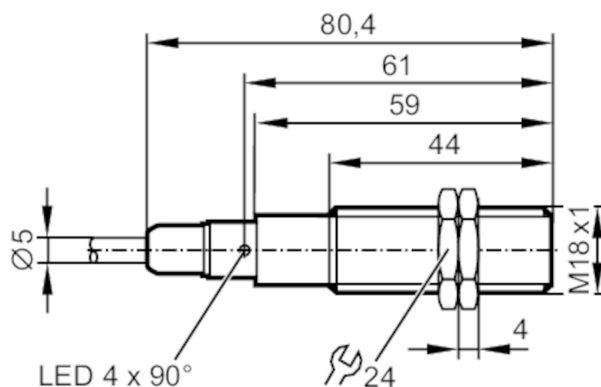




## Diffuse reflection sensor with background suppression

OGH-HPKG/6M



### Product characteristics

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

### Application

|                    |                           |
|--------------------|---------------------------|
| Special feature    | Background suppression    |
| Function principle | Diffuse reflection sensor |

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...36 DC |
| Current consumption         | [mA] | 25         |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |

### Outputs

|                                                 |      |                       |
|-------------------------------------------------|------|-----------------------|
| Electrical design                               |      | PNP                   |
| Output function                                 |      | light-on mode         |
| Max. voltage drop switching output DC           | [V]  | 2.5                   |
| Permanent current rating of switching output DC | [mA] | 150; (200 (...60 °C)) |
| Switching frequency DC                          | [Hz] | 1000                  |
| Short-circuit protection                        |      | yes                   |
| Type of short-circuit protection                |      | pulsed                |
| Overload protection                             |      | yes                   |

### Detection zone

|                                        |      |                                                 |
|----------------------------------------|------|-------------------------------------------------|
| Range                                  | [mm] | < 100; (white paper 200 x 200 mm 90% remission) |
| Range on white object (90 % remission) | [mm] | < 100                                           |
| Range on grey object (18 % remission)  | [mm] | < 100                                           |
| Range on black object (6 % remission)  | [mm] | < 100                                           |

# OGH306



## Diffuse reflection sensor with background suppression

OGH-HPKG/6M

|                                  |       |
|----------------------------------|-------|
| Range adjustable                 | no    |
| Max. light spot diameter [mm]    | 9     |
| Light spot dimensions refer to   | Range |
| Background suppression available | yes   |

### Operating conditions

|                          |                             |
|--------------------------|-----------------------------|
| Ambient temperature [°C] | -25...80                    |
| Protection               | IP 65; IP 67; IP 68; IP 69K |

### Tests / approvals

|              |              |
|--------------|--------------|
| EMC          | EN 60947-5-2 |
| MTTF [years] | 372          |

### Mechanical data

|                    |                                                       |
|--------------------|-------------------------------------------------------|
| Weight [g]         | 267.5                                                 |
| Housing            | threaded type                                         |
| Dimensions [mm]    | M18 x 1 / L = 80.4                                    |
| Thread designation | M18 x 1                                               |
| Materials          | housing: stainless steel (316L/1.4404); Sealing: EPDM |
| Lens material      | PMMA                                                  |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

### Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

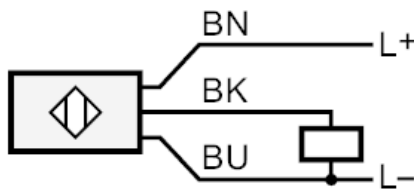
### Remarks

|               |                                                       |
|---------------|-------------------------------------------------------|
| Remarks       | operating voltage "supply class 2" according to cULus |
| Pack quantity | 1 pcs.                                                |

### Electrical connection

Cable: 6 m, PVC; 3 x 0.34 mm<sup>2</sup>

### Connection



|      |                |
|------|----------------|
|      | Core colours : |
| BK = | black          |
| BN = | brown          |
| BU = | blue           |