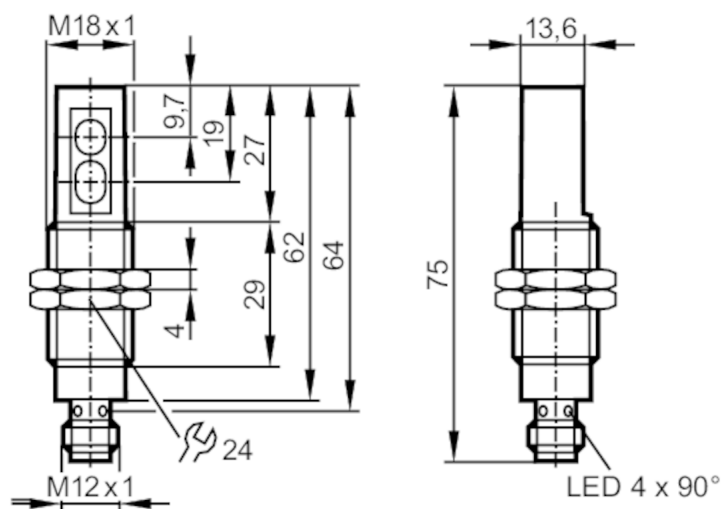




## Diffuse reflection sensors with background suppression

OGH-HPKG/US/90°/100MM



### Product characteristics

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

### Application

|                    |                           |
|--------------------|---------------------------|
| System             | Background suppression    |
| Function principle | Diffuse reflection sensor |

### Electrical data

|                             |      |                                               |
|-----------------------------|------|-----------------------------------------------|
| Operating voltage           | [V]  | 10...30 DC; (cULus - Class 2 source required) |
| Current consumption         | [mA] | 25                                            |
| Protection class            |      | II                                            |
| Reverse polarity protection |      | yes                                           |
| Type of light               |      | red light                                     |
| Wave length                 | [nm] | 625                                           |

### 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] | 200                |
| Switching frequency DC                          | [Hz] | 1000               |
| Short-circuit protection                        |      | yes                |
| Type of short-circuit protection                |      | yes (non-latching) |
| Overload protection                             |      | yes                |

### Monitoring range

|                          |      |                                                  |
|--------------------------|------|--------------------------------------------------|
| Range                    | [mm] | < 100; (white paper 200 x 200 mm 90 % remission) |
| Range adjustable         |      | no                                               |
| Max. light spot diameter | [mm] | 16                                               |



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|                                  |                  |
|----------------------------------|------------------|
| Light spot dimensions refer to   | at maximum range |
| Background suppression available | yes              |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...60 |
| Protection               | IP 68    |

### Tests / approvals

|              |              |         |
|--------------|--------------|---------|
| EMC          | EN 60947-5-2 |         |
|              | EN 55011     | class B |
| MTTF [years] | 541          |         |

### Mechanical data

|                    |                      |
|--------------------|----------------------|
| Weight [g]         | 57.3                 |
| Housing            | Threaded type        |
| Dimensions [mm]    | M18 x 1 / L = 65     |
| Thread designation | M18 x 1              |
| Material           | stainless steel; ABS |
| Lens material      | PMMA                 |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|         | Power            | 1 x LED, green  |

### Accessories

|                |                 |
|----------------|-----------------|
| Items supplied | Nuts: 2         |
|                | lock washers: 2 |

### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Connector: 1 x M12; coding: A





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### Connection

