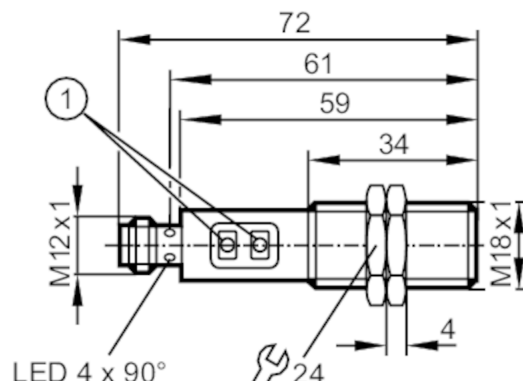




## Diffuse reflection sensors with background suppression

OGH-FPKG/US100



1 Programming buttons



### 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...36 DC |
| Current consumption         | [mA] | 25         |
| Protection class            |      | II         |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [nm] | 624        |

### Outputs

|                                                 |      |                                       |
|-------------------------------------------------|------|---------------------------------------|
| Electrical design                               |      | PNP                                   |
| Output function                                 |      | light-on/dark-on mode; (programmable) |
| 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                |      | yes (non-latching)                    |
| Overload protection                             |      | yes                                   |

### Monitoring range

|                                        |      |                                                     |
|----------------------------------------|------|-----------------------------------------------------|
| Range                                  | [mm] | 20...200; (white paper 200 x 200 mm 90 % remission) |
| Range on white object (90 % remission) | [mm] | 20...200                                            |
| Range on black object (6 % remission)  | [mm] | 20...50                                             |



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|                                  |                  |
|----------------------------------|------------------|
| Factory setting                  | light-on mode    |
| Range adjustable                 | yes              |
| Max. light spot diameter [mm]    | 17               |
| Light spot dimensions refer to   | at maximum 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]      | 362          |

| Mechanical data    |                                                                |
|--------------------|----------------------------------------------------------------|
| Weight [g]         | 62.5                                                           |
| Housing            | Threaded type                                                  |
| Dimensions [mm]    | M18 x 1 / L = 72                                               |
| Thread designation | M18 x 1                                                        |
| Material           | stainless steel (1.4404 / 316L); PA; LCP; EPDM; TPU (urethane) |
| Lens material      | PMMA                                                           |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | Switching status | 1 x LED, yellow |

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

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

| Electrical connection |  |
|-----------------------|--|
|-----------------------|--|

Connector: 1 x M12; coding: A





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### Connection

