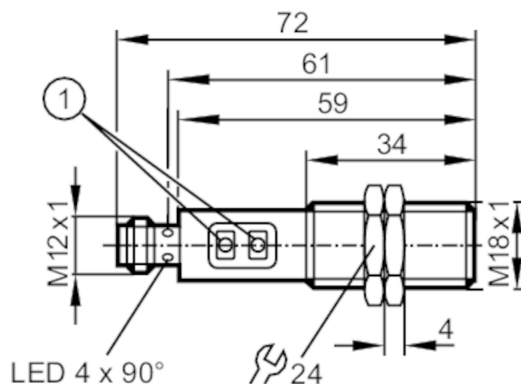




## Diffuse reflection sensor with background suppression

OGH-FNKG/US100



1 programming buttons



### Application

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                               |      | NPN                                   |
| 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                |      | pulsed                                |
| Overload protection                             |      | yes                                   |

### Detection zone

|                                  |      |                                                     |
|----------------------------------|------|-----------------------------------------------------|
| Range                            | [mm] | 15...300; (white paper 200 x 200 mm 90 % remission) |
| Factory setting                  |      | \$Hellschaltung                                     |
| Range adjustable                 |      | yes                                                 |
| Max. light spot diameter         | [mm] | 25                                                  |
| Light spot dimensions refer to   |      | at maximum range                                    |
| Background suppression available |      | yes                                                 |



## Diffuse reflection sensor with background suppression

OGH-FNKG/US100

| Operating conditions          |                  |                                                       |
|-------------------------------|------------------|-------------------------------------------------------|
| Ambient temperature           | [°C]             | -25...80                                              |
| Protection                    |                  | IP 67                                                 |
| Tests / approvals             |                  |                                                       |
| EMC                           |                  | EN 60947-5-2                                          |
| MTTF                          | [years]          | 368                                                   |
| Mechanical data               |                  |                                                       |
| Weight                        | [g]              | 62.4                                                  |
| Housing                       |                  | threaded type                                         |
| Dimensions                    | [mm]             | M18 x 1 / L = 72                                      |
| Thread designation            |                  | M18 x 1                                               |
| Materials                     |                  | stainless steel (1.4404 / 316L); PA; LCP; EPDM; TPU   |
| Lens material                 |                  | PMMA                                                  |
| Displays / operating elements |                  |                                                       |
| Display                       | switching status | 1 x LED, yellow                                       |
| Accessories                   |                  |                                                       |
| Accessories (supplied)        |                  | lock nuts: 2 x                                        |
| Remarks                       |                  |                                                       |
| Remarks                       |                  | operating voltage "supply class 2" according to cULus |
| Pack quantity                 |                  | 1 pcs.                                                |
| Electrical connection         |                  |                                                       |

Connector: 1 x M12



### Connection

