# OG5047

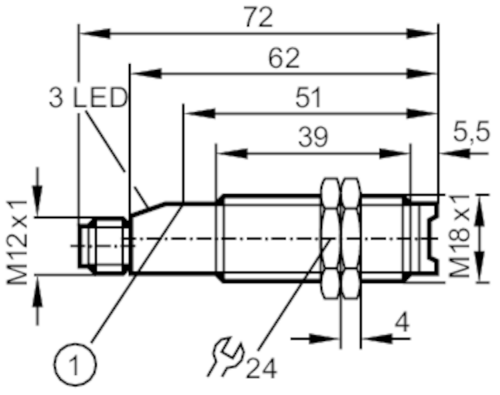
## Retro-reflective sensor

OGP-FNKG/US-100

Article no longer available - archive entry

Alternative articles: OGP503

When selecting an alternative article and accessories please note that technical data may differ!




1 pushbutton

| | | |
|---|---|---|
| **Product characteristics** | | |
| Type of light | | red light |
| Housing | | Threaded type |
| **Application** | | |
| System | | gold-plated contacts; polarization filter; Function check output |
| Function principle | | Retro-reflective sensor |
| **Electrical data** | | |
| Operating voltage | [V] | 10...36 DC |
| Current consumption | [mA] | < 32 |
| Protection class | | II |
| Reverse polarity protection | | yes |
| Type of light | | red light |
| Wave length | [nm] | 660 |
| **Outputs** | | |
| Electrical design | | NPN |
| Output function | | light-on/dark-on mode;  (configurable) |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Function check output | | yes |
| Max. voltage drop of function check output | [V] | 3.5 |
| Max. current load for function check output | [mA] | 10 |
| Permanent current rating of switching output DC | [mA] | 200 |
| Switching frequency DC | [Hz] | 500 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | yes (non-latching) |

# OG5047

## Retro-reflective sensor

OGP-FNKG/US-100

| | | | |
|---|---|---|---|
| Overload protection | | yes | |
| **Monitoring range** | | | |
| Range | [m] | < 3;  (Prismatic reflector Ø 80 E20005) | |
| Range adjustable | | yes | |
| Max. light spot diameter | [mm] | 262 | |
| Light spot dimensions refer to | | at maximum range | |
| Polarization filter available | | yes | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...80 | |
| Protection | | IP 67 | |
| **Tests / approvals** | | | |
| EMC | | EN 60947-5-2 | |
| | | EN 55011 | class B |
| **Mechanical data** | | | |
| Housing | | Threaded type | |
| Dimensions | [mm] | M18 x 1 / L = 72 | |
| Thread designation | | M18 x 1 | |
| Material | | PBT | |
| Lens material | | PMMA | |
| **Displays / operating elements** | | | |
| Display | | Switching status | 1 x LED, yellow |
| | | Power | 1 x LED, green |
| | | Function | 1 x LED, red |
| **Accessories** | | | |
| Items supplied | | lock nuts: 2 | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |
| **Electrical connection** | | | |

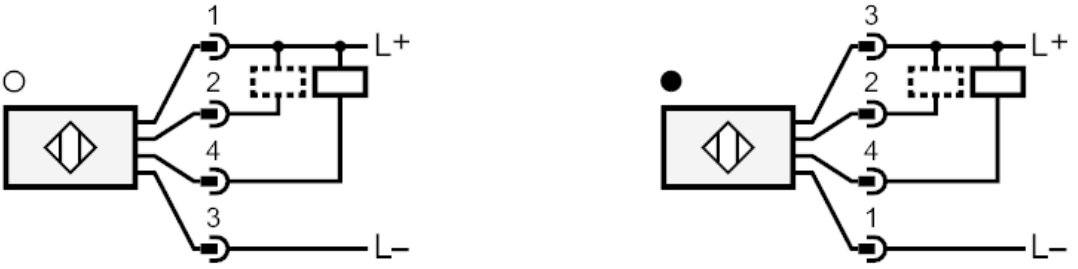
Connector: 1 x M12; coding: A; Contacts: gold-plated

# OG5047

## Retro-reflective sensor

OGP-FNKG/US-100

### Connection




2 Function check output

### Diagrams and graphs

excess gain graph