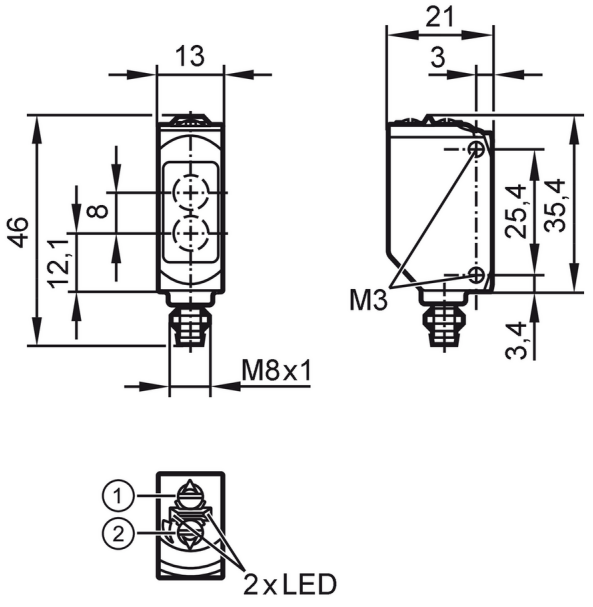
# O6P207

## Retro-reflective sensor

O6P-FNKG/AS/4P




1: output function switch
2: potentiometer sensitivity
receiver in upper lens
transmitter in lower lens

| | | |
|---|---|---|
| **Product characteristics** | | |
| Type of light | | red light |
| Housing | | rectangular |
| **Application** | | |
| Special feature | | polarisation filter |
| Function principle | | Retro-reflective sensor |
| Application | | Industrial applications / factory automation |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC |
| Current consumption | [mA] | 12;  ((24 V)) |
| Protection class | | III |
| Reverse polarity protection | | yes |
| Type of light | | red light |
| Wave length | [nm] | 633 |
| **Outputs** | | |
| Electrical design | | NPN |
| Output function | | light-on/dark-on mode;  (selectable) |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Permanent current rating of switching output DC | [mA] | 100 |
| Switching frequency DC | [Hz] | 1000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |

# O6P207

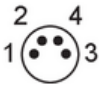
## Retro-reflective sensor

O6P-FNKG/AS/4P

| | | | |
|---|---|---|---|
| **Detection zone** | | | |
| Range referred to prismatic reflector | [m] | 0.05...5; (Prismatic reflector Ø 80 E20005) | |
| Range adjustable | | yes | |
| Max. light spot diameter | [mm] | 150 | |
| Light spot dimensions refer to | | at maximum range | |
| Polarisation filter available | | yes | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...60 | |
| Storage temperature | [°C] | -40...70 | |
| Max. relative air humidity | [%] | 50; (70° C) | |
| Protection | | IP 65; IP 67 | |
| **Tests / approvals** | | | |
| EMC | | EN 60947-5-2 | |
| MTTF | [years] | 895 | |
| UL approval | | Ta | -25...40 °C |
| | | Enclosure type | Type 1 |
| | | voltage supply | Class 2 |
| | | UL approval no. | E001 |
| **Mechanical data** | | | |
| Weight | [g] | 18.5 | |
| Housing | | rectangular | |
| Dimensions | [mm] | 46 x 13 x 21 | |
| Materials | | housing: ABS orange; upper part of the housing: PPSU black | |
| Lens material | | front pane:PMMA | |
| Lens alignment | | side lens | |
| Sealing material | | EPDM | |
| Tightening torque | [Nm] | 0.5 | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, yellow |
| | | operation | 1 x LED, green |
| **Remarks** | | | |
| Remarks | | operating voltage "supply class 2" according to cULus | |
| Pack quantity | | 1 pcs. | |

**Electrical connection**

Connector: 1 x M8; coding: A; Contacts: 4; Locking: brass, coated; Sealing: EPDM

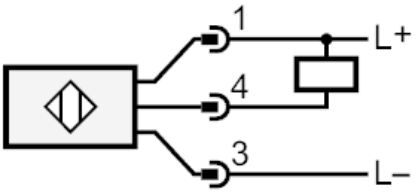


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## Retro-reflective sensor

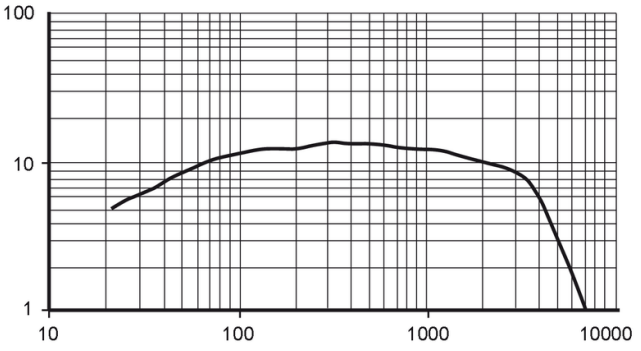
**O6P-FNKG/AS/4P**

### Connection




### Diagrams and graphs

excess gain graph




x: distance [mm]

y: excess gain factor