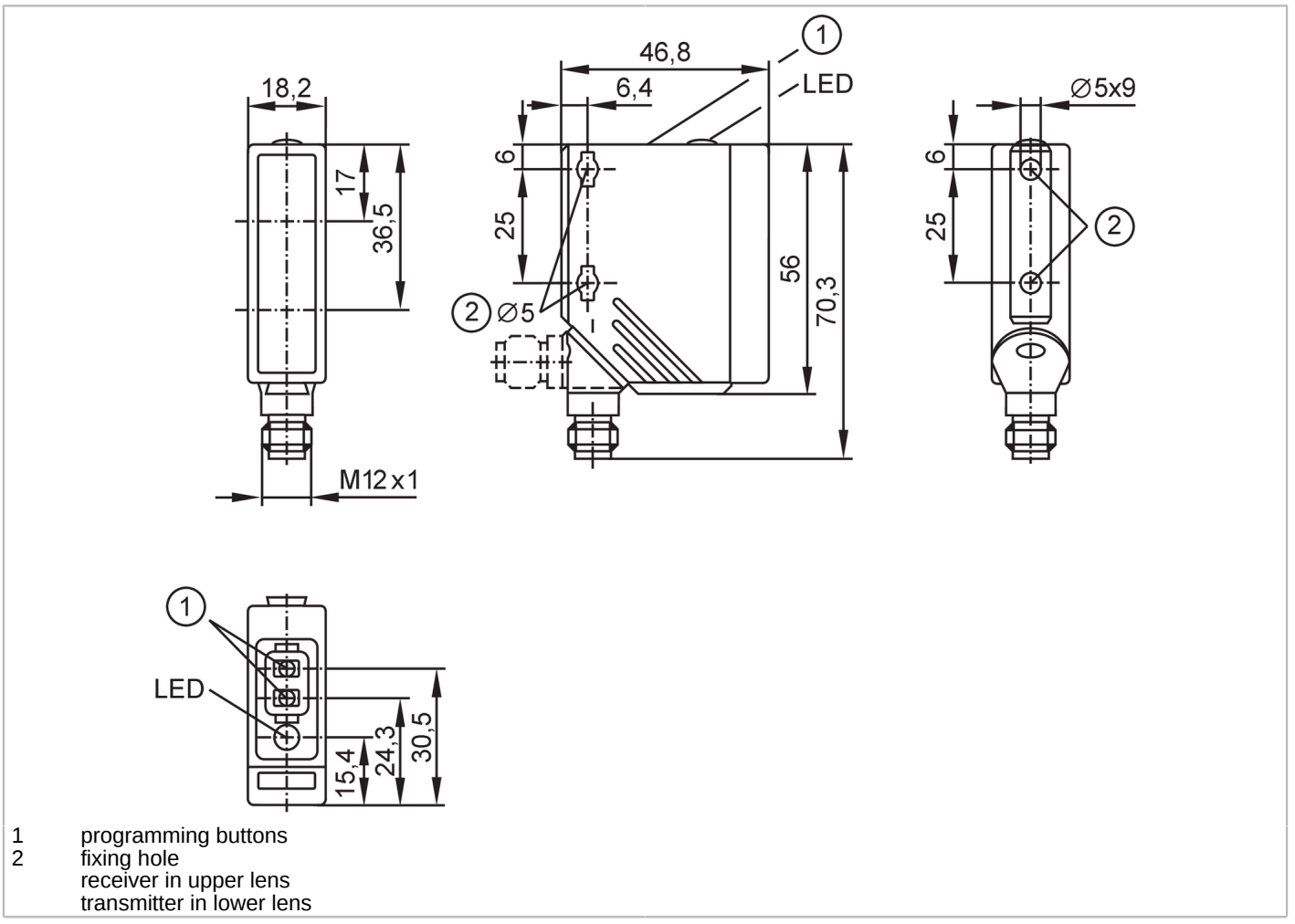
# O5P502

## Retro-reflective sensor

O5P-FNKG/US100




1 programming buttons
2 fixing hole
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...36 DC |
| Current consumption | [mA] | 20 |
| 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) |

# O5P502

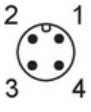
## Retro-reflective sensor

O5P-FNKG/US100

| | | |
|---|---|---|
| Max. voltage drop switching output DC [V] | | 2.5 |
| Permanent current rating of switching output DC [mA] | | 200 |
| Switching frequency DC [Hz] | | 2000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| **Detection zone** | | |
| Range referred to prismatic reflector [m] | | 0.075...10;  (Prismatic reflector Ø 80 E20005) |
| Range adjustable | | yes |
| Max. light spot diameter [mm] | | 250 |
| Light spot dimensions refer to | | at maximum range |
| Polarisation filter available | | yes |
| **Operating conditions** | | |
| Ambient temperature [°C] | | -25...60 |
| Protection | | IP 67 |
| **Tests / approvals** | | |
| EMC | EN 60947-5-2 | |
| MTTF [years] | | 438 |
| **Mechanical data** | | |
| Weight [g] | | 67.5 |
| Housing | | rectangular |
| Dimensions [mm] | | 56 x 18.2 x 46.8 |
| Materials | | housing: PA; bezel: stainless steel; operator interface: TPU |
| Lens material | | front pane:PMMA |
| Lens alignment | | side lens |
| Fixing hole | | |
| Tightening torque [Nm] | | < 2;  (when using a mounting screw M5) |
| **Displays / operating elements** | | |
| Display | switching status | 1 x LED, yellow |
| Teach function | | yes |
| Electronic lock | | yes |
| **Remarks** | | |
| Remarks | | operating voltage "supply class 2" according to cULus |
| Pack quantity | | 1 pcs. |

**Electrical connection**

Connector: 1 x M12; coding: A; Contacts: 4

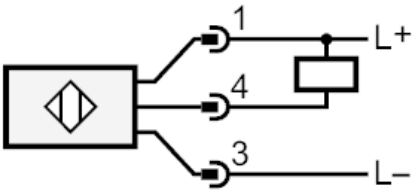


# O5P502

## Retro-reflective sensor

**O5P-FNKG/US100**

### Connection




### Diagrams and graphs

excess gain graph

