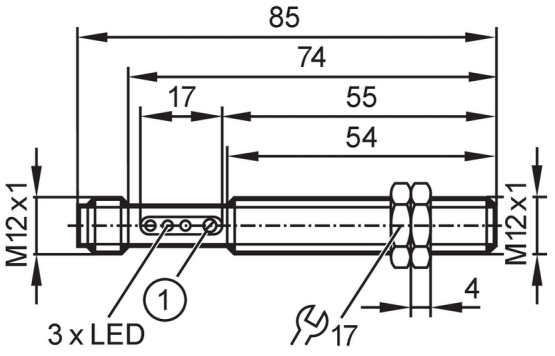
# OF5062

## Retro-reflective sensor

OFP-FNKG/US-100




1 potentiometer

| | | |
|---|---|---|
| **Product characteristics** | | |
| Type of light | | red light |
| Housing | | threaded type |
| **Application** | | |
| Special feature | | polarisation filter; Function check output |
| Function principle | | Retro-reflective sensor |
| Application | | Industrial applications / factory automation |
| **Electrical data** | | |
| Operating voltage | [V] | 10...36 DC |
| Current consumption | [mA] | < 35 |
| 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; (programmable) |
| 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] | 320 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |

# OF5062

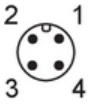
## Retro-reflective sensor

OFP-FNKG/US-100

| | | | |
|---|---|---|---|
| **Detection zone** | | | |
| Range referred to prismatic reflector | [m] | 0.2...0.8; (Prismatic reflector Ø 80 E20005) | |
| Range adjustable | | yes | |
| Max. light spot diameter | [mm] | 70 | |
| Light spot dimensions refer to | | at maximum range | |
| Polarisation filter available | | yes | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...60 | |
| Protection | | IP 65 | |
| **Tests / approvals** | | | |
| EMC | | EN 60947-5-2 | |
| | | EN 55011 | class B |
| MTTF | [years] | 609 | |
| UL approval | | Ta | < 40 °C |
| | | Enclosure type | Type 1 |
| | | voltage supply | Limited Voltage/Current |
| | | UL approval no. | E030 |
| | | File number UL | E174191 |
| **Mechanical data** | | | |
| Weight | [g] | 40.5 | |
| Housing | | threaded type | |
| Dimensions | [mm] | M12 x 1 / L = 74 | |
| Thread designation | | M12 x 1 | |
| Materials | | housing: brass white bronze coated | |
| Lens material | | front pane:PMMA | |
| **Displays / operating elements** | | | |
| Display | | switching status | 1 x LED, yellow |
| | | operation | 1 x LED, green |
| | | function | 1 x LED, red |
| **Accessories** | | | |
| Items supplied | | lock nuts: 2 | |
| | | screwdrivers | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

**Electrical connection**

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



# OF5062

## Retro-reflective sensor

OFP-FNKG/US-100

### Connection




2 Function check output

### Diagrams and graphs

excess gain graph

