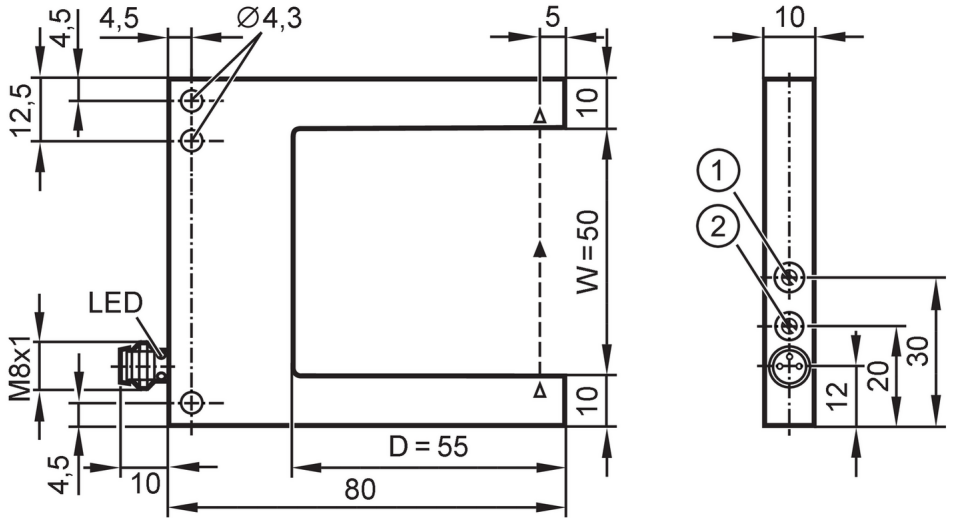
# OPU203

## Photoelectric fork sensor

OPU-FCKG/IO-LINK/AS




1 potentiometer sensitivity
2 output function switch

| | | |
|---|---|---|
| **Product characteristics** | | |
| Type of light | | red light |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC; ("supply class 2" to cULus) |
| Current consumption | [mA] | < 30 |
| Protection class | | III |
| Reverse polarity protection | | yes |
| Type of light | | red light |
| Wave length | [nm] | 660 |
| **Outputs** | | |
| Electrical design | | PNP |
| Output function | | light-on/dark-on mode; (selectable) |
| Max. voltage drop switching output DC | [V] | 1 |
| Permanent current rating of switching output DC | [mA] | 100 |
| Switching frequency DC | [Hz] | 5000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| **Detection zone** | | |
| Diameter of the smallest detectable object | [mm] | 0.3 |
| **Interfaces** | | |
| Communication interface | | IO-Link |
| Transmission type | | COM2 (38,4 kBaud) |
| IO-Link revision | | 1.1 |

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OPU-FCKG/IO-LINK/AS

| | | | |
|---|---|---|---|
| SDCI standard | | IEC 61131-9 | |
| Profiles | | Smart Sensor - SSP 0 | Generic Profiled Sensor |
| | | Function | Device identification |
| | | Function | Multiple switching signal |
| | | Function | Process data variable |
| | | Function | Device diagnosis |
| | | Function | Teach channel |
| SIO mode | | yes | |
| Required master port type | | A | |
| Min. process cycle time | [ms] | 3.2 | |
| Supported DeviceIDs | | **Type of operation** | **DeviceID** |
| | | default | 978 |

## Operating conditions

| | | |
|---|---|---|
| Ambient temperature | [°C] | -25...60 |
| Protection | | IP 67 |

## Tests / approvals

| | | | |
|---|---|---|---|
| EMC | | EN 60947-5-2 | |
| MTTF | [years] | 709 | |

## Mechanical data

| | | |
|---|---|---|
| Weight | [g] | 122 |
| Dimensions | [mm] | 70 x 10 x 80 |
| Fork depth D | [mm] | 55 |
| Fork width W | [mm] | 50 |
| Materials | | housing: diecast zinc black anodised; lens: glass |

## Displays / operating elements

| | | | |
|---|---|---|---|
| Display | | switching status | 1 x LED, yellow |

## Remarks

| | |
|---|---|
| Remarks | operating voltage "supply class 2" according to cULus |
| Pack quantity | 1 pcs. |

## Electrical connection

Connector: 1 x M8; coding: A; Contacts: 3

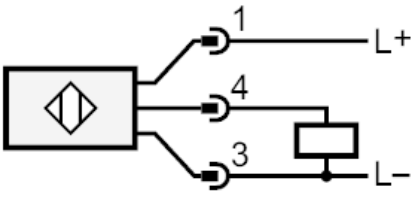


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## Photoelectric fork sensor

OPU-FCKG/IO-LINK/AS

### Connection




| | |
|---|---|
| 4 | OUT / IO-Link |

### Other data

**operating mode adjustable via IO-Link**

| | standard | High Resolution | Power | Speed |
|---|---|---|---|---|
| Resolution | 0.3 mm | 0.2 mm | 1.0 mm | 0.3 mm |
| Repeatability | 0.02 mm | 0.02 mm | 0.02 mm | 0.02 mm |
| Switching frequency | 5000 Hz | 1500 Hz | 250 Hz | 8000 Hz |

| | |
|---|---|
| Repeatability | 3 σ |