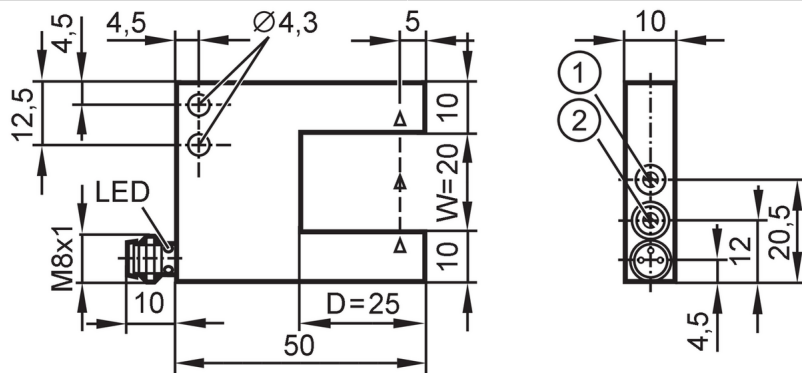


OPU201



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; (cULus - Class 2 source required) |
| 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 | yes (non-latching) |
| Overload protection | yes |

Monitoring range

| | |
|-------------------------------------------------|-----|
| 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 |
| SDCI standard | IEC 61131-9 |

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| | | |
|------------------------------|--------------------------|---------------------------|
| 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 class | | 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] | | 74 |
| Dimensions [mm] | | 40 x 10 x 50 |
| Fork depth D [mm] | | 25 |
| Fork width W [mm] | | 20 |
| Material | housing: diecast zinc black anodized; lens: glass | |

Displays / operating elements

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

Remarks

| | | |
|---------------|---------------------------------|--|
| Remarks | cULus - Class 2 source required | |
| Pack quantity | 1 pcs. | |

Electrical connection

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



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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 | | | |