



# OPU202



## Photoelectric fork sensor

OPU-FCKG/IO-LINK/AS

|                              |                          |                           |
|------------------------------|--------------------------|---------------------------|
| 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          | <b>Type of operation</b> | <b>DeviceID</b>           |
|                              | 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]        |   | 93           |
| Dimensions [mm]   |   | 50 x 10 x 60 |
| Fork depth D [mm] |   | 35           |
| Fork width W [mm] |   | 30           |
| 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



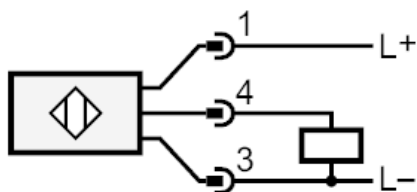
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### Connection



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 $\sigma$ |                 |         |         |