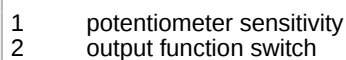


## OPL-FCKG/IO-LINK/AS



|                 |                                     |
|-----------------|-------------------------------------|
| Output function | light-on/dark-on mode; (selectable) |
|-----------------|-------------------------------------|



## Photoelectric angle sensor

OPL-FCKG/IO-LINK/AS

|                                                 |      |                    |
|-------------------------------------------------|------|--------------------|
| 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              |                           |
| 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]                                               | 187            |
| Dimensions     | [mm]                                              | 105 x 10 x 105 |
| Side length X  | [mm]                                              | 80             |
| Side length Y  | [mm]                                              | 80             |
| Sensor width Z | [mm]                                              | 100            |
| 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.                          |  |

# OPL201

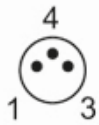


## Photoelectric angle sensor

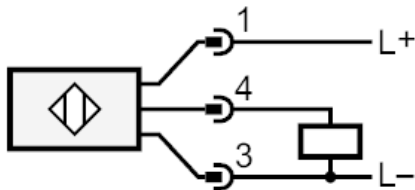
OPL-FCKG/IO-LINK/AS

### Electrical connection

Connector: 1 x M8; coding: A



### 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 $\sigma$ |                 |         |         |