

OPL201



Photoelectric angle sensor

OPL-FCKG/IO-LINK/AS

| | |
|--|--------------------|
| 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 | Type of operation default DeviceID 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. |

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Photoelectric angle sensor

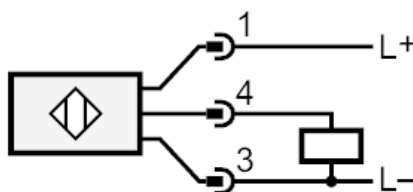
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Electrical connection

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



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 | | | |