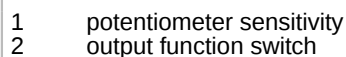


## OPL-FNKG/IO-LINK/AS



|               |           |
|---------------|-----------|
| Type of light | red light |
|---------------|-----------|

|                   |     |                                         |
|-------------------|-----|-----------------------------------------|
| 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       |

|                   |     |
|-------------------|-----|
| Electrical design | NPN |
|-------------------|-----|

|                                                      |                                     |
|------------------------------------------------------|-------------------------------------|
| 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                                 |

|                                            |      |     |
|--------------------------------------------|------|-----|
| Diameter of the smallest detectable object | [mm] | 0.3 |
|--------------------------------------------|------|-----|



## Photoelectric angle sensor

OPL-FNKG/IO-LINK/AS

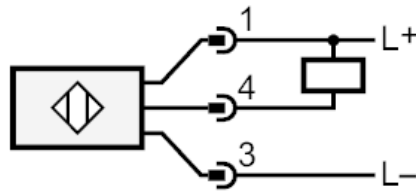
| Interfaces                                                                                     |                                                                                                                |                 |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------|
| Communication interface                                                                        | IO-Link                                                                                                        |                 |
| Transmission type                                                                              | COM2 (38,4 kBaud)                                                                                              |                 |
| IO-Link revision                                                                               | 1.1                                                                                                            |                 |
| SDCI standard                                                                                  | IEC 61131-9                                                                                                    |                 |
| Profiles                                                                                       | Smart Sensor: Device Identification; Device Diagnosis; Teach Channel; Switching Channel; Process Data Variable |                 |
| SIO mode                                                                                       | yes                                                                                                            |                 |
| Required master port type                                                                      | A                                                                                                              |                 |
| Min. process cycle time [ms]                                                                   | 3.2                                                                                                            |                 |
| Supported DeviceIDs                                                                            | Type of operation                                                                                              | DeviceID        |
|                                                                                                | default                                                                                                        | 1103            |
| Operating conditions                                                                           |                                                                                                                |                 |
| Ambient temperature [°C]                                                                       | -25...60                                                                                                       |                 |
| Protection                                                                                     | IP 67                                                                                                          |                 |
| Tests / approvals                                                                              |                                                                                                                |                 |
| EMC                                                                                            | EN 60947-5-2                                                                                                   |                 |
| MTTF [years]                                                                                   | 709                                                                                                            |                 |
| Mechanical data                                                                                |                                                                                                                |                 |
| Weight [g]                                                                                     | 116                                                                                                            |                 |
| Dimensions [mm]                                                                                | 75 x 10 x 75                                                                                                   |                 |
| Side length X [mm]                                                                             | 50                                                                                                             |                 |
| Side length Y [mm]                                                                             | 50                                                                                                             |                 |
| Sensor width Z [mm]                                                                            | 60                                                                                                             |                 |
| 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                                                                   |                                                                                                                |                 |
| <div></div> |                                                                                                                |                 |



## Photoelectric angle sensor

OPL-FNKG/IO-LINK/AS

### Connection



4

OUT / IO-Link