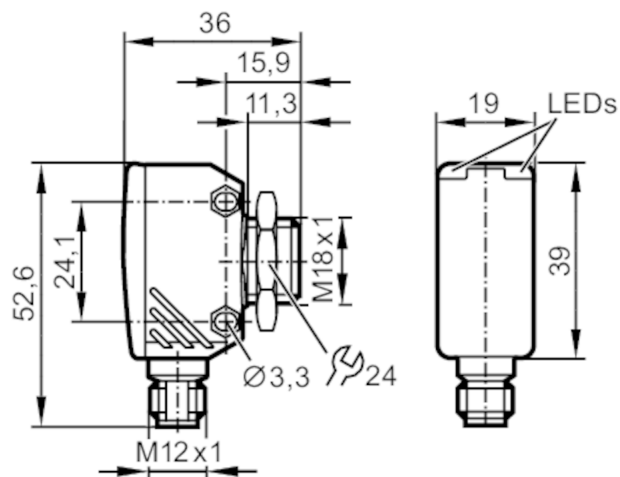


## Retro-reflective sensor

OGP-HNKG/US/CUBE



### Product characteristics

|               |             |
|---------------|-------------|
| Type of light | red light   |
| Housing       | rectangular |

### Application

|                    |                         |
|--------------------|-------------------------|
| Special feature    | polarisation filter     |
| Function principle | Retro-reflective sensor |

### Electrical data

|                             |      |            |
|-----------------------------|------|------------|
| Operating voltage           | [V]  | 10...30 DC |
| Current consumption         | [mA] | 21         |
| Protection class            |      | III        |
| Reverse polarity protection |      | yes        |
| Type of light               |      | red light  |
| Wave length                 | [Nm] | 662        |

### Outputs

|                                                 |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | NPN           |
| Output function                                 |      | light-on mode |
| Max. voltage drop switching output DC           | [V]  | 2.5           |
| Permanent current rating of switching output DC | [mA] | 200           |
| Switching frequency DC                          | [Hz] | 1000          |
| Short-circuit protection                        |      | yes           |
| Type of short-circuit protection                |      | pulsed        |
| Overload protection                             |      | yes           |



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| Detection zone                        |                              |                                                                                         |
|---------------------------------------|------------------------------|-----------------------------------------------------------------------------------------|
| Range referred to prismatic reflector | [m]                          | 0.1...4; (Prismatic reflector Ø 80 E20005)                                              |
| Range adjustable                      |                              | no                                                                                      |
| Max. light spot diameter              | [mm]                         | 160                                                                                     |
| Light spot dimensions refer to        |                              | at maximum range                                                                        |
| Polarisation filter available         |                              | yes                                                                                     |
| 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 |
| SIO mode                              |                              | yes                                                                                     |
| Required master port type             |                              | A                                                                                       |
| Min. process cycle time               | [ms]                         | 2.5                                                                                     |
| IO-Link process data (cyclical)       | function                     | bit length                                                                              |
|                                       | device status                | 4                                                                                       |
|                                       | binary switching information | 1                                                                                       |
| IO-Link functions (acyclical)         |                              | application specific tag; operating hours counter; switching cycles counter             |
| Supported DeviceIDs                   | Type of operation            | DeviceID                                                                                |
|                                       | Default                      | 1146                                                                                    |
| Note                                  |                              | For further information please see the IODD PDF file under "Downloads"                  |
| Operating conditions                  |                              |                                                                                         |
| Ambient temperature                   | [°C]                         | -25...60                                                                                |
| Storage temperature                   | [°C]                         | -40...60                                                                                |
| Protection                            |                              | IP 65; IP 67                                                                            |
| Tests / approvals                     |                              |                                                                                         |
| EMC                                   |                              | EN 60947-5-2                                                                            |
| MTTF                                  | [years]                      | 905                                                                                     |
| UL approval                           | Ta                           | -25...60 °C                                                                             |
|                                       | Enclosure type               | Type 1                                                                                  |
|                                       | voltage supply               | Class 2                                                                                 |
|                                       | File number UL               | E174191                                                                                 |
| Mechanical data                       |                              |                                                                                         |
| Weight                                | [g]                          | 60                                                                                      |
| Housing                               |                              | rectangular                                                                             |
| Dimensions                            | [mm]                         | 52.6 x 19.1 x 36.1                                                                      |
| Materials                             |                              | diecast zinc; PEI                                                                       |
| Lens material                         |                              | PMMA                                                                                    |
| Lens alignment                        |                              | side lens                                                                               |
| Displays / operating elements         |                              |                                                                                         |
| Display                               | switching status             | 1 x LED, yellow                                                                         |
|                                       | operation                    | 1 x LED, green                                                                          |



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### Accessories

Items supplied

lock nut: 1 x

### Remarks

Pack quantity

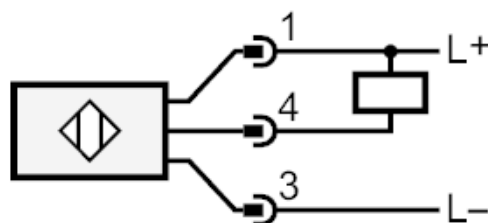
1 pcs.

### Electrical connection

Connector: 1 x M12



### Connection





## Retro-reflective sensor

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### Diagrams and graphs

excess gain graph

