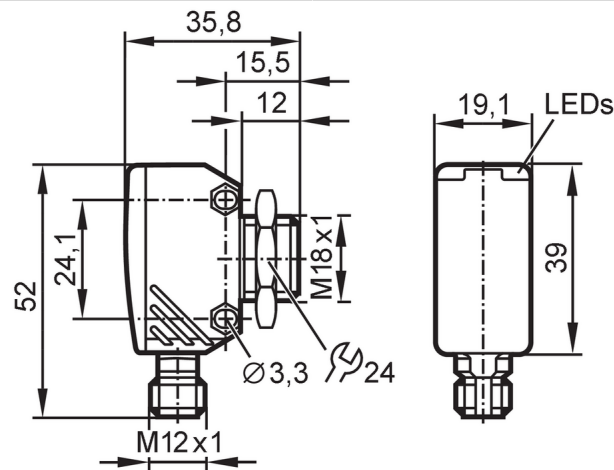


OGP282



Retro-reflective sensor

OGP-DNKG/US/CUBE



transmitter in lower lens
receiver in upper lens



Product characteristics

| | |
|---------------|-----------------------------|
| Type of light | red light |
| Housing | rectangular with M18 thread |

Application

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

Electrical data

| | | |
|-----------------------------|------|------------|
| Operating voltage | [V] | 10...30 DC |
| Current consumption | [mA] | 25 |
| Protection class | | III |
| Reverse polarity protection | | yes |
| Type of light | | red light |
| Wave length | [nm] | 624 |

Outputs

| | | |
|---|------|--------------|
| Electrical design | | NPN |
| Output function | | dark-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 |

Detection zone

| | | |
|---------------------------------------|-----|--|
| Range referred to prismatic reflector | [m] | 0.1...4; (Prismatic reflector Ø 80 E20005) |
| Range adjustable | | no |

OGP282



Retro-reflective sensor

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| | |
|--------------------------------|------------------|
| Max. light spot diameter [mm] | 160 |
| Light spot dimensions refer to | at maximum range |
| Polarisation filter available | yes |

Operating conditions

| | |
|--------------------------|----------|
| Ambient temperature [°C] | -25...60 |
| Protection | IP 67 |

Tests / approvals

| | |
|--------------|--------------|
| EMC | EN 60947-5-2 |
| MTTF [years] | 905 |

Mechanical data

| | |
|--------------------|---|
| Weight [g] | 59.5 |
| Housing | rectangular with M18 thread |
| Dimensions [mm] | 52 x 19.1 x 38.8 |
| Thread designation | M18 x 1 |
| Materials | housing: diecast zinc; rear of the housing: PEI |
| Lens material | front pane:PMMA |
| Lens alignment | side lens |

Displays / operating elements

| | | |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
| | operation | 1 x LED, green |

Accessories

| | |
|----------------|-------------|
| Items supplied | lock nut: 1 |
|----------------|-------------|

Remarks

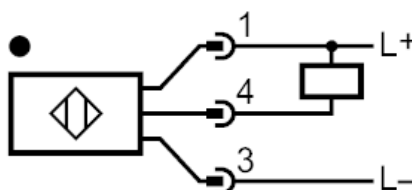
| | |
|---------------|---|
| Remarks | operating voltage "supply class 2" according to cULus |
| Pack quantity | 1 pcs. |

Electrical connection

Connector: 1 x M12; coding: A



Connection



OGP282



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Diagrams and graphs

excess gain graph

