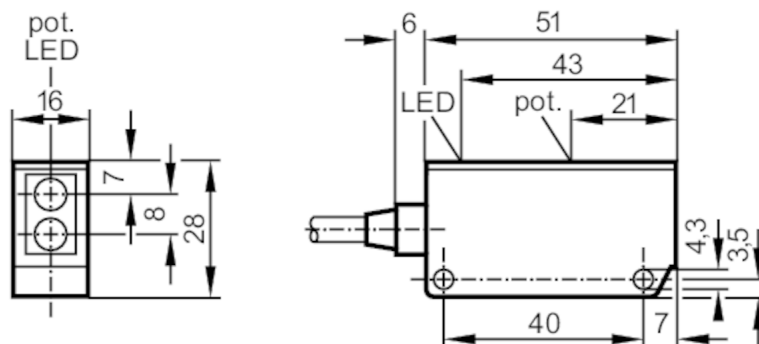




## Retro-reflective sensor

OUP-DPKG



Receiver in upper lens  
transmitter in lower lens



## Product characteristics

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

## Application

|                    |                         |
|--------------------|-------------------------|
| System             | polarization filter     |
| Function principle | Retro-reflective sensor |

## Electrical data

|                             |      |                                               |
|-----------------------------|------|-----------------------------------------------|
| Operating voltage           | [V]  | 10...55 DC; (cULus - Class 2 source required) |
| Current consumption         | [mA] | 30; ((24 V))                                  |
| Protection class            |      | II                                            |
| Reverse polarity protection |      | yes                                           |
| Type of light               |      | red light                                     |
| Wave length                 | [nm] | 660                                           |

## Outputs

|                                                 |      |                    |
|-------------------------------------------------|------|--------------------|
| Electrical design                               |      | PNP                |
| Output function                                 |      | dark-on mode       |
| Max. voltage drop switching output DC           | [V]  | 2.5                |
| Permanent current rating of switching output DC | [mA] | 250                |
| Switching frequency DC                          | [Hz] | 160                |
| Short-circuit protection                        |      | yes                |
| Type of short-circuit protection                |      | yes (non-latching) |
| Overload protection                             |      | yes                |

## Monitoring range

|                                       |      |                                               |
|---------------------------------------|------|-----------------------------------------------|
| Range referred to prismatic reflector | [m]  | 0.15...1.5; (Prismatic reflector Ø 80 E20005) |
| Range adjustable                      |      | yes                                           |
| Max. light spot diameter              | [mm] | 475                                           |
| Light spot dimensions refer to        |      | at maximum range                              |
| Polarization filter available         |      | yes                                           |



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

| Tests / approvals |                    |         |
|-------------------|--------------------|---------|
| EMC               | EN 60947-5-2       |         |
|                   | EN 55011           | class B |
| MTTF              | [years]            | 687     |
| UL approval       | Ta                 | < 40 °C |
|                   | Enclosure type     | Type 1  |
|                   | voltage supply     | Class 2 |
|                   | UL approval number | E031    |
|                   | File number UL     | E174191 |

| Mechanical data    |      |              |
|--------------------|------|--------------|
| Weight             | [g]  | 150          |
| Housing            |      | rectangular  |
| Dimensions         | [mm] | 28 x 16 x 51 |
| Number of channels |      | 1            |
| Material           |      | PPO modified |
| Lens material      |      | glass        |

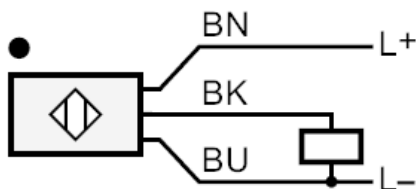
| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | Switching status | 1 x LED, yellow |

| Accessories    |                          |
|----------------|--------------------------|
| Items supplied | Angle bracket: 1, E20211 |

| Remarks       |        |
|---------------|--------|
| Pack quantity | 1 pcs. |

| Electrical connection         |  |
|-------------------------------|--|
| Cable: 2 m, PVC; 3 x 0.34 mm² |  |

| Connection |  |
|------------|--|
|------------|--|



|    |       |
|----|-------|
| BN | brown |
| BU | blue  |
| BK | black |



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Diagrams and graphs

excess gain graph

