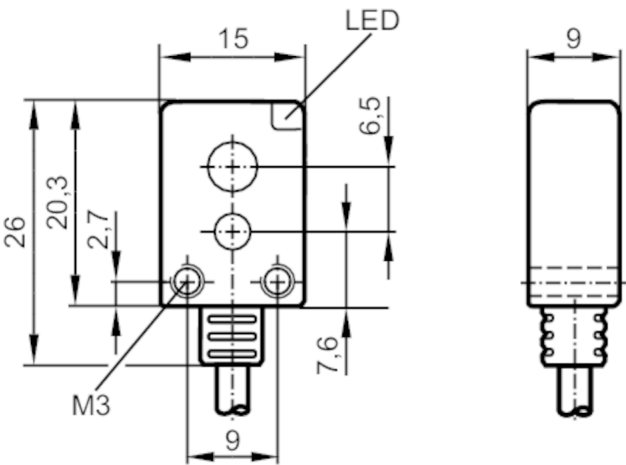


# O7P201



## Retro-reflective sensor

O7P-HPKG/0,20M/AS



receiver in upper lens  
transmitter in lower lens



| 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] | 20; ((24 V))                                                                       |
| Protection class                                |      | III                                                                                |
| Reverse polarity protection                     |      | yes                                                                                |
| Type of light                                   |      | red light                                                                          |
| Wave length                                     | [nm] | 633                                                                                |
| Outputs                                         |      |                                                                                    |
| Electrical design                               |      | PNP                                                                                |
| Output function                                 |      | light-on mode                                                                      |
| Max. voltage drop switching output DC           | [V]  | 2.5                                                                                |
| Permanent current rating of switching output DC | [mA] | 100                                                                                |
| Switching frequency DC                          | [Hz] | 1000                                                                               |
| Short-circuit protection                        |      | yes                                                                                |
| Type of short-circuit protection                |      | pulsed                                                                             |
| Detection zone                                  |      |                                                                                    |
| Range referred to prismatic reflector           | [m]  | 0.03...1; (Prismatic reflector Ø 80 E20005; Prismatic reflector 50 x 50 mm E21299) |
| Range adjustable                                |      | no                                                                                 |

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|                                |      |                  |
|--------------------------------|------|------------------|
| Max. light spot diameter       | [mm] | 55               |
| Light spot dimensions refer to |      | at maximum range |
| Polarisation filter available  |      | yes              |

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...60 |
| Protection          |      | IP 65    |

### Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 1155         |

### Mechanical data

|                   |      |               |
|-------------------|------|---------------|
| Weight            | [g]  | 14.4          |
| Housing           |      | rectangular   |
| Dimensions        | [mm] | 20.3 x 15 x 9 |
| Materials         |      | PA            |
| Lens material     |      | PMMA          |
| Lens alignment    |      | side lens     |
| Tightening torque | [Nm] | 0.5           |

### Displays / operating elements

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

### Remarks

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

### Electrical connection

Cable: 0.2 m, PUR; 3 x 0.14 mm<sup>2</sup>

Connector: 1 x M8; coding: A; Locking: snap-fit





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### Connection

