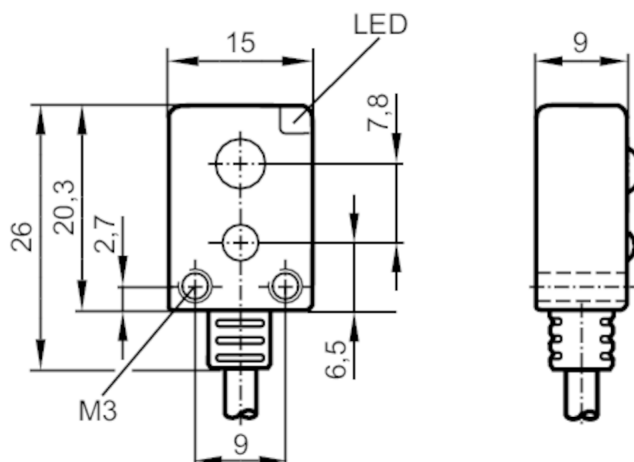




## Diffuse reflection sensor with background suppression

O7H-DPKG/0,20M/AS



receiver in upper lens  
transmitter in lower lens



## Product characteristics

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

## Application

|                    |                           |
|--------------------|---------------------------|
| Special feature    | Background suppression    |
| Function principle | Diffuse reflection sensor |

## Electrical data

|                             |      |  |
|-----------------------------|------|--|
| Operating voltage           | [V]  | 10...30 DC; ("supply class 2" according to UL) |
| 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                                 |      | dark-on mode |
| Max. voltage drop switching output DC           | [V]  | 2.5          |
| Permanent current rating of switching output DC | [mA] | 100          |
| Switching frequency DC                          | [Hz] | 750          |
| Short-circuit protection                        |      | yes          |
| Type of short-circuit protection                |      | pulsed       |

## Detection zone

|  |      |                                    |
|--|------|------------------------------------|
| Range                                  | [mm] | 5...30; (white paper 200 x 200 mm) |
| Range on white object (90 % remission) | [mm] | 5...30                             |



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|  |                  |
|--|------------------|
| Range on grey object (18 % remission) [mm] | 6...30           |
| Range on black object (6 % remission) [mm] | 7...29           |
| Range adjustable                           | no               |
| Max. light spot diameter [mm]              | 2.5              |
| Light spot dimensions refer to             | at maximum range |
| Background suppression available           | yes              |

## Operating conditions

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

## Tests / approvals

|              |              |
|--------------|--------------|
| EMC          | EN 60947-5-2 |
| MTTF [years] | 1610         |

## 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     |

## Displays / operating elements

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

## Remarks

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

