

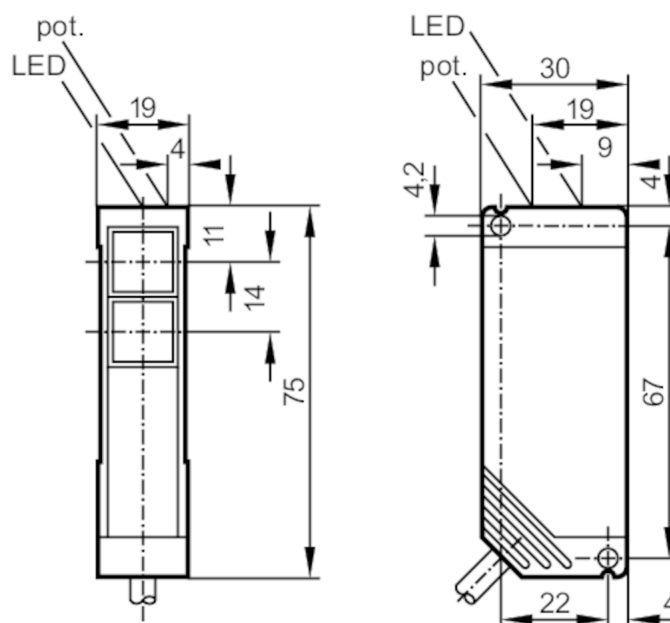
## Diffuse reflection sensor

OTT-FPKG/6M/PH

Article no longer available - archive entry

Alternative articles: OT5019 or OT5003

When selecting an alternative article and accessories please note that technical data may differ!



- 1 potentiometer  
receiver in lower lens  
transmitter in upper lens



## Product characteristics

|               |                |
|---------------|----------------|
| Type of light | infrared light |
| Housing       | rectangular    |

## Application

|                    |                           |
|--------------------|---------------------------|
| Function principle | Diffuse reflection sensor |
|--------------------|---------------------------|

## Electrical data

|                             |                |
|-----------------------------|----------------|
| Operating voltage [V]       | 10...55 DC     |
| Current consumption [mA]    | 40; ((24 V))   |
| Protection class            | II             |
| Reverse polarity protection | yes            |
| Type of light               | infrared light |
| Wave length [nm]            | 880            |

## Outputs

|                                                      |                                       |
|------------------------------------------------------|---------------------------------------|
| Electrical design                                    | PNP                                   |
| Output function                                      | light-on/dark-on mode; (programmable) |
| Max. voltage drop switching output DC [V]            | 2.5                                   |
| Permanent current rating of switching output DC [mA] | 250                                   |

# OT5023



## Diffuse reflection sensor

OTT-FPKG/6M/PH

|                                  |         |                                     |                 |
|----------------------------------|---------|-------------------------------------|-----------------|
| Switching frequency DC           | [Hz]    | 150                                 |                 |
| Short-circuit protection         |         | yes                                 |                 |
| Type of short-circuit protection |         | pulsed                              |                 |
| Overload protection              |         | yes                                 |                 |
| Detection zone                   |         |                                     |                 |
| Range                            | [mm]    | 4...200; (white paper 200 x 200 mm) |                 |
| Range adjustable                 |         | yes                                 |                 |
| Max. light spot diameter         | [mm]    | 187                                 |                 |
| Light spot dimensions refer to   |         | at maximum range                    |                 |
| Operating conditions             |         |                                     |                 |
| Ambient temperature              | [°C]    | -25...60                            |                 |
| Protection                       |         | IP 67                               |                 |
| Tests / approvals                |         |                                     |                 |
| EMC                              |         | EN 60947-5-2                        |                 |
|                                  |         | EN 55011                            | class B         |
| MTTF                             | [years] | 583                                 |                 |
| Mechanical data                  |         |                                     |                 |
| Housing                          |         | rectangular                         |                 |
| Dimensions                       | [mm]    | 75 x 19 x 30                        |                 |
| Materials                        |         | PBT                                 |                 |
| Lens material                    |         | PMMA                                |                 |
| Lens alignment                   |         | side lens                           |                 |
| Displays / operating elements    |         |                                     |                 |
| Display                          |         | switching status                    | 1 x LED, yellow |
|                                  |         | operation                           | 1 x LED, green  |
| Accessories                      |         |                                     |                 |
| Items supplied                   |         | Angle bracket: 1, E20441            |                 |
|                                  |         | screwdrivers                        |                 |
| Remarks                          |         |                                     |                 |
| Pack quantity                    |         | 1 pcs.                              |                 |



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### Electrical connection

Cable: 6 m, PUR; 3 x 0.34 mm<sup>2</sup>

### Connection



Core colours :  
 BN = brown  
 BU = blue  
 BK = black

### Diagrams and graphs

excess gain graph

