



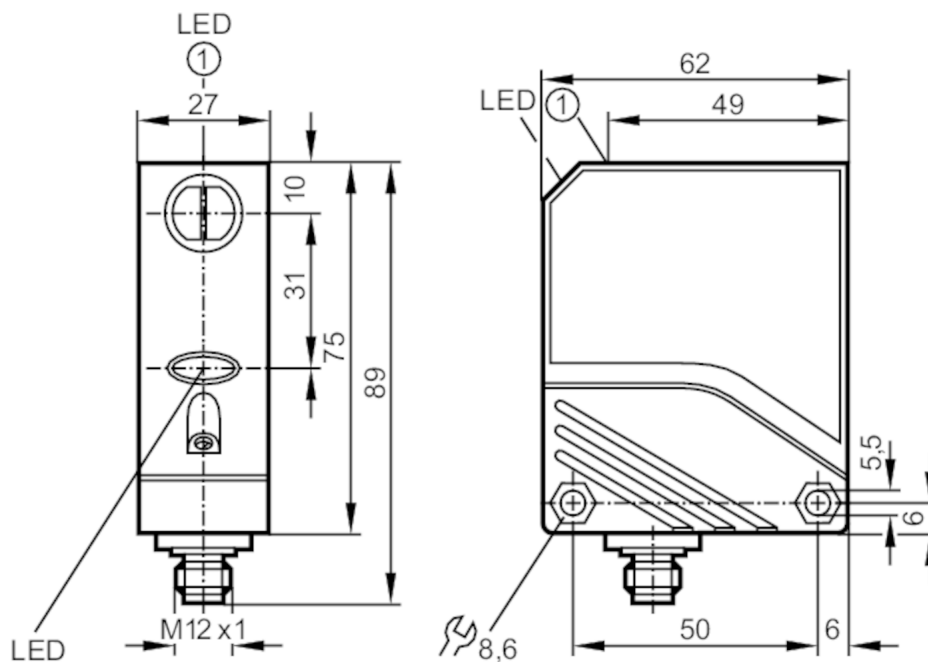
## Diffuse reflection sensor

OLTLFNKG/US-100

Article no longer available - archive entry

Alternative articles: O5H700 + EVC01E + E21122

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



1 pushbutton

## Product characteristics

|                        |             |
|------------------------|-------------|
| Type of light          | red light   |
| Laser protection class | 2           |
| Housing                | rectangular |

## Application

|                    |                           |
|--------------------|---------------------------|
| System             | Function check output     |
| Function principle | Diffuse reflection sensor |

## Electrical data

|                             |      |                                       |
|-----------------------------|------|---------------------------------------|
| Operating voltage           | [V]  | 10...30 DC                            |
| Current consumption         | [mA] | < 30; (Power; \$Einstellung: < 50 mA) |
| Protection class            |      | II                                    |
| Reverse polarity protection |      | yes                                   |
| Type of light               |      | red light                             |
| Wave length                 | [nm] | 675                                   |
| Typ. lifetime               | [h]  | 50000                                 |

## Outputs

|                                       |     |                                       |
|---------------------------------------|-----|---------------------------------------|
| Electrical design                     |     | NPN                                   |
| Output function                       |     | light-on/dark-on mode; (configurable) |
| Max. voltage drop switching output DC | [V] | 2.5                                   |



## Diffuse reflection sensor

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|                                                      |  |                    |
|------------------------------------------------------|--|--------------------|
| Function check output                                |  | yes                |
| Max. voltage drop of function check output [V]       |  | 3.5                |
| Max. current load for function check output [mA]     |  | 10                 |
| Permanent current rating of switching output DC [mA] |  | 200                |
| Switching frequency DC [Hz]                          |  | 500                |
| Short-circuit protection                             |  | yes                |
| Type of short-circuit protection                     |  | yes (non-latching) |
| Overload protection                                  |  | yes                |

## Monitoring range

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| Range [mm]                     | 1...150; (white paper 200 x 200 mm 90 % remission) |
| Range adjustable               | yes                                                |
| Max. light spot diameter [mm]  | 0.1                                                |
| Light spot dimensions refer to | Range                                              |

## Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -10...50 |
| Protection               | IP 67    |

## Tests / approvals

|                        |              |         |
|------------------------|--------------|---------|
| EMC                    | EN 60947-5-2 |         |
|                        | EN 55011     | class B |
| Laser protection class | 2            |         |

## Mechanical data

|                 |              |
|-----------------|--------------|
| Housing         | rectangular  |
| Dimensions [mm] | 75 x 27 x 62 |
| Material        | PBT          |
| Lens material   | PMMA         |

## Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|         | Power            | 1 x LED, green  |
|         | Function         | 1 x LED, red    |

## Remarks

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

## Electrical connection

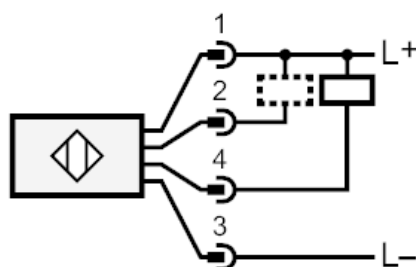
Connector: 1 x M12; coding: A



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## Connection



2 Function check output

## Diagrams and graphs

excess gain graph

