

## Diffuse reflection sensor

OGTLFPKG/B5/V4A/US-100

Article no longer available - archive entry

Alternative articles: OGH700

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                | threaded type |

## Application

|                    |                                             |
|--------------------|---------------------------------------------|
| Special feature    | Gold-plated contacts; Function check output |
| Function principle | Diffuse reflection sensor                   |

## Electrical data

|                             |      |                                           |
|-----------------------------|------|-------------------------------------------|
| Operating voltage           | [V]  | 10...30 DC                                |
| Current consumption         | [mA] | < 30; (operation; \$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                               | PNP                                      |     |
| Output function                                 | light-on/dark-on mode; (parameterisable) |     |
| Max. voltage drop switching output DC           | [V]                                      | 2.5 |
| 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 |



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|                                  |                                                   |                 |
|----------------------------------|---------------------------------------------------|-----------------|
| Short-circuit protection         | yes                                               |                 |
| Type of short-circuit protection | pulsed                                            |                 |
| Overload protection              | yes                                               |                 |
| Detection zone                   |                                                   |                 |
| 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                                                 |                 |
| Notes on laser protection        | Caution:                                          | laser light     |
|                                  | pulse performance:                                | <= 2,2 mW       |
|                                  | Wave length:                                      | 675 nm          |
|                                  | frequency:                                        | 2,2 kHz         |
|                                  | Pulse length:                                     | 24 µs           |
|                                  | Do not stare into beam.                           |                 |
|                                  | Avoid exposure to the laser light.                |                 |
|                                  | laser class:                                      | 2               |
|                                  |                                                   | EN 60825-1      |
| Mechanical data                  |                                                   |                 |
| Housing                          | threaded type                                     |                 |
| Dimensions [mm]                  | M18 x 1 / L = 72                                  |                 |
| Thread designation               | M18 x 1                                           |                 |
| Materials                        | stainless steel (316L/1.4404); PBT                |                 |
| Lens material                    | PMMA                                              |                 |
| Displays / operating elements    |                                                   |                 |
| Display                          | switching status                                  | 1 x LED, yellow |
|                                  | operation                                         | 1 x LED, green  |
|                                  | function                                          | 1 x LED, red    |
| Accessories                      |                                                   |                 |
| Items supplied                   | lock nuts: 2                                      |                 |
| Remarks                          |                                                   |                 |
| Pack quantity                    | 1 pcs.                                            |                 |

## Diffuse reflection sensor

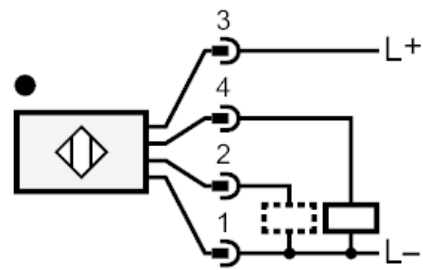
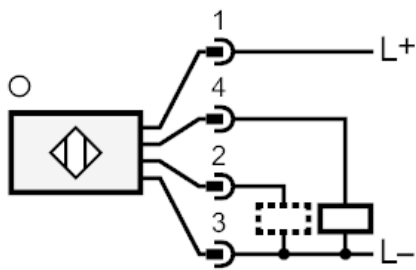
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### Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



### Connection



2 Function check output



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### Diagrams and graphs

excess gain graph

