



## Diffuse reflection sensor

OGTIFPKG/US



1 Programming buttons



## Product characteristics

|               |                |
|---------------|----------------|
| Type of light | Infrared light |
| Housing       | Threaded type  |

## Application

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

## Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Operating voltage           | [V]  | 10...36 DC     |
| Current consumption         | [mA] | 25             |
| Protection class            |      | II             |
| Reverse polarity protection |      | yes            |
| Type of light               |      | Infrared light |
| Wave length                 | [nm] | 855            |

## 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] | 150; (200 (...60 °C))                 |
| Switching frequency DC                          | [Hz] | 2000                                  |
| Short-circuit protection                        |      | yes                                   |
| Type of short-circuit protection                |      | yes (non-latching)                    |
| Overload protection                             |      | yes                                   |

## Monitoring range

|                          |      |                                                    |
|--------------------------|------|----------------------------------------------------|
| Range                    | [mm] | 2...600; (white paper 200 x 200 mm 90 % remission) |
| Factory setting          |      | light-on mode                                      |
| Setting range            | [mm] | 150...600                                          |
| Range adjustable         |      | yes                                                |
| Max. light spot diameter | [mm] | 66                                                 |



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Light spot dimensions refer to \_\_\_\_\_ at maximum range

## Operating conditions

|                     |      |                             |
|---------------------|------|-----------------------------|
| Ambient temperature | [°C] | -25...80                    |
| Protection          |      | IP 65; IP 67; IP 68; IP 69K |

## Tests / approvals

|      |         |              |
|------|---------|--------------|
| EMC  |         | EN 60947-5-2 |
| MTTF | [years] | 1076         |

## Mechanical data

|                    |      |                                                                |
|--------------------|------|----------------------------------------------------------------|
| Weight             | [g]  | 61.1                                                           |
| Housing            |      | Threaded type                                                  |
| Dimensions         | [mm] | M18 x 1 / L = 72                                               |
| Thread designation |      | M18 x 1                                                        |
| Material           |      | stainless steel (1.4404 / 316L); PA; LCP; EPDM; TPU (urethane) |
| Lens material      |      | PMMA                                                           |

## Displays / operating elements

|                 |                  |                 |
|-----------------|------------------|-----------------|
| Display         | Switching status | 1 x LED, yellow |
| Teach function  |                  | yes             |
| Electronic lock |                  | yes             |

## Accessories

|                |  |              |
|----------------|--|--------------|
| Items supplied |  | lock nuts: 2 |
|----------------|--|--------------|

## Remarks

|               |  |                                 |
|---------------|--|---------------------------------|
| Remarks       |  | cULus - Class 2 source required |
| Pack quantity |  | 1 pcs.                          |

## Electrical connection

Connector: 1 x M12; coding: A





## Diffuse reflection sensor

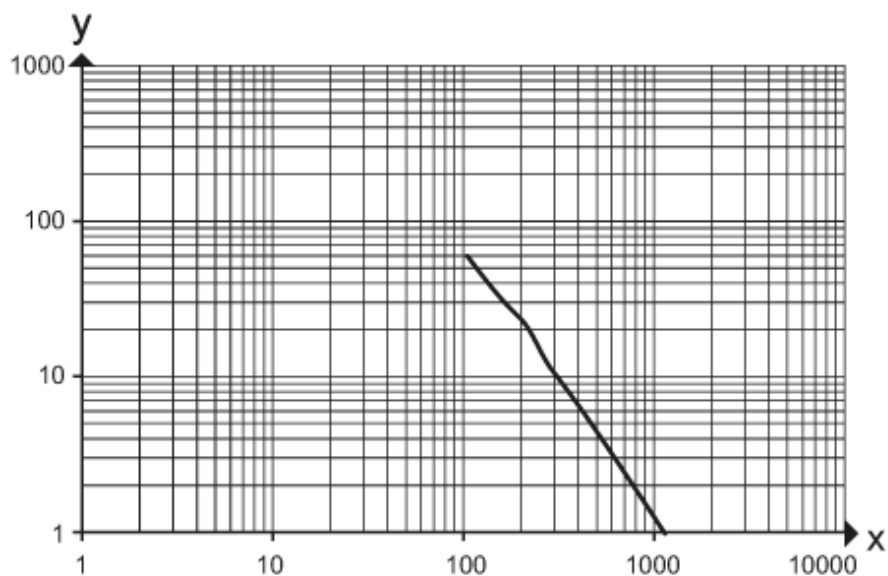
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### Connection



### Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor