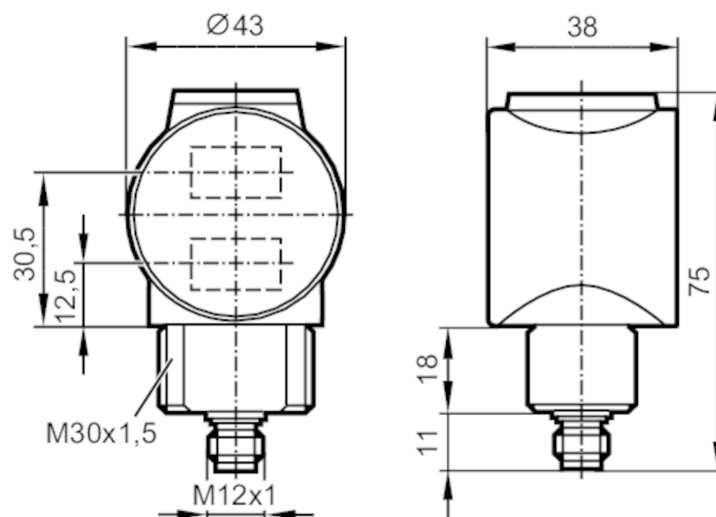




## Diffuse reflection sensor with background suppression

OIH-HPKG/US/600MM

Article no longer available - archive entry



1 potentiometer



### Product characteristics

|               |           |
|---------------|-----------|
| Type of light | red light |
|---------------|-----------|

### Application

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

### Electrical data

|                             |      |                                         |
|-----------------------------|------|-----------------------------------------|
| Operating voltage           | [V]  | 10...30 DC; ("supply class 2" to cULus) |
| Current consumption         | [mA] | 35                                      |
| Protection class            |      | III                                     |
| Reverse polarity protection |      | yes                                     |
| Type of light               |      | red light                               |
| Wave length                 | [nm] | 625                                     |

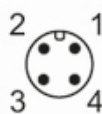
### Outputs

|                                                 |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | light-on mode |
| Max. voltage drop switching output DC           | [V]  | 2.5           |
| Permanent current rating of switching output DC | [mA] | 200           |
| Switching frequency DC                          | [Hz] | 300           |
| Short-circuit protection                        |      | yes           |
| Type of short-circuit protection                |      | pulsed        |
| Overload protection                             |      | yes           |



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| Detection zone                                                                      |                  |                                                 |
|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------|
| Range                                                                               | [mm]             | < 600; (white paper 200 x 200 mm 90% remission) |
| Range on white object (90 % remission)                                              | [mm]             | < 600                                           |
| Range on grey object (18 % remission)                                               | [mm]             | < 596                                           |
| Range on black object (6 % remission)                                               | [mm]             | < 578                                           |
| Range adjustable                                                                    |                  | no                                              |
| Max. light spot diameter                                                            | [mm]             | 30                                              |
| Light spot dimensions refer to                                                      |                  | at maximum range                                |
| Background suppression available                                                    |                  | yes                                             |
| Operating conditions                                                                |                  |                                                 |
| Ambient temperature                                                                 | [°C]             | -25...60                                        |
| Protection                                                                          |                  | IP 67                                           |
| Tests / approvals                                                                   |                  |                                                 |
| EMC                                                                                 | EN 60947-5-2     |                                                 |
| Mechanical data                                                                     |                  |                                                 |
| Weight                                                                              | [g]              | 211                                             |
| Dimensions                                                                          | [mm]             | 64 x 43 x 38                                    |
| Thread designation                                                                  |                  | M30 x 1.5                                       |
| Materials                                                                           |                  | diecast zinc nickel-plated                      |
| Lens material                                                                       |                  | PMMA                                            |
| Displays / operating elements                                                       |                  |                                                 |
| Display                                                                             | switching status | 1 x LED, yellow                                 |
|                                                                                     | operation        | 1 x LED, green                                  |
| Accessories                                                                         |                  |                                                 |
| Items supplied                                                                      | lock nut: 1      |                                                 |
| Remarks                                                                             |                  |                                                 |
| Pack quantity                                                                       | 1 pcs.           |                                                 |
| Electrical connection                                                               |                  |                                                 |
| Connector: 1 x M12; coding: A                                                       |                  |                                                 |
|  |                  |                                                 |



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### Connection

