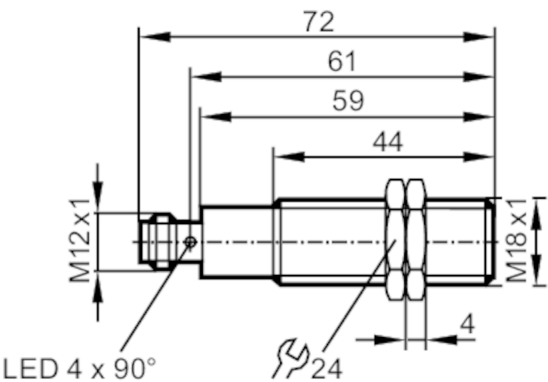




Diffuse reflection sensor with background suppression

OGH-HPKG/US100



transmitter in lower lens  
receiver in upper lens



| Product characteristics                         |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Type of light                                   |      | red light                                       |
| Housing                                         |      | threaded type                                   |
| Application                                     |      |                                                 |
| Special feature                                 |      | Background suppression                          |
| 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                                   |      | red light                                       |
| Wave length                                     | [nm] | 624                                             |
| 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] | 1000                                            |
| Short-circuit protection                        |      | yes                                             |
| Type of short-circuit protection                |      | pulsed                                          |
| Overload protection                             |      | yes                                             |
| Detection zone                                  |      |                                                 |
| Range                                           | [mm] | < 100; (white paper 200 x 200 mm 90% remission) |
| Range adjustable                                |      | no                                              |
| Max. light spot diameter                        | [mm] | 9                                               |



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|                                  |                                            |                  |
|----------------------------------|--------------------------------------------|------------------|
| Light spot dimensions refer to   | Range                                      |                  |
| Background suppression available | yes                                        |                  |
| Operating conditions             |                                            |                  |
| Ambient temperature              | [°C]                                       | -25...60         |
| Protection                       | IP 67                                      |                  |
| Tests / approvals                |                                            |                  |
| EMC                              | EN 60947-5-2                               |                  |
| MTTF                             | [years]                                    | 372              |
| Mechanical data                  |                                            |                  |
| Weight                           | [g]                                        | 52.6             |
| Housing                          | threaded type                              |                  |
| Dimensions                       | [mm]                                       | M18 x 1 / L = 72 |
| Thread designation               | M18 x 1                                    |                  |
| Materials                        | housing: stainless steel; PA; Sealing: FKM |                  |
| Lens material                    | glass                                      |                  |
| Displays / operating elements    |                                            |                  |
| Display                          | switching status                           | 1 x LED, yellow  |
| Accessories                      |                                            |                  |
| Items supplied                   | lock nuts: 2                               |                  |
| Remarks                          |                                            |                  |
| Pack quantity                    | 1 pcs.                                     |                  |
| Electrical connection            |                                            |                  |

Connector: 1 x M12; coding: A



Connection

