



Diffuse reflection sensor with background suppression

OGH-FNKG/US100



1 programming buttons



Product characteristics

| | |
|---------------|---------------|
| Type of light | red light |
| Housing | threaded type |

Application

| | |
|--------------------|--|
| Special feature | Background suppression |
| Function principle | Diffuse reflection sensor |
| Application | Industrial applications / factory automation |

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 | | NPN |
| 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] | 1000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |

Detection zone

| | | |
|--------------------------------|------|--|
| Range | [mm] | 15...300; (white paper 200 x 200 mm 90% remission) |
| Factory setting | | light-on mode |
| Range adjustable | | yes |
| Max. light spot diameter | [mm] | 25 |
| Light spot dimensions refer to | | at maximum range |

OGH502



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| | |
|----------------------------------|-----|
| Background suppression available | yes |
|----------------------------------|-----|

Operating conditions

| | |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection | IP 67 |

Tests / approvals

| | |
|--------------|--------------|
| EMC | EN 60947-5-2 |
| MTTF [years] | 368 |

Mechanical data

| | |
|--------------------|---|
| Weight [g] | 61.7 |
| Housing | threaded type |
| Dimensions [mm] | M18 x 1 / L = 72 |
| Thread designation | M18 x 1 |
| Materials | stainless steel (316L/1.4404); PA; LCP; EPDM; TPU |
| Lens material | front pane:PMMA |

Displays / operating elements

| | | |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

Accessories

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

Remarks

| | |
|---------------|---|
| Remarks | operating voltage "supply class 2" according to cULus |
| Pack quantity | 1 pcs. |

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4



Connection

