

O6T302



Diffuse reflection sensor

O6T-FPKG/AS/3P



- 1: output function switch
2: potentiometer sensitivity



Product characteristics

| | |
|---------------|-------------|
| Type of light | red light |
| Housing | rectangular |

Application

| | |
|--------------------|----------------------------|
| Function principle | Diffuse reflection sensor |
| Application | food and beverage industry |

Electrical data

| | | |
|-----------------------------|------|--------------|
| Operating voltage | [V] | 10...30 DC |
| Current consumption | [mA] | 16; ((24 V)) |
| Protection class | | III |
| Reverse polarity protection | | yes |
| Type of light | | red light |
| Wave length | [nm] | 633 |

Outputs

| | | |
|---|------|-------------------------------------|
| Electrical design | | PNP |
| Output function | | light-on/dark-on mode; (selectable) |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Permanent current rating of switching output DC | [mA] | 100 |
| Switching frequency DC | [Hz] | 1000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |

Detection zone

| | | |
|---------------|------|---|
| Range | [mm] | 5...500; (white paper 200 x 200 mm 90% remission) |
| Setting range | [mm] | 100...500 |

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| | |
|--------------------------------|------------------|
| Range adjustable | yes |
| Max. light spot diameter [mm] | 15 |
| 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] | 910 | |
| UL approval | Ta | -25...40 °C |
| | Enclosure type | Type 1 |
| | voltage supply | Class 2 |
| | UL approval no. | E001 |

| Mechanical data | |
|------------------------|---|
| Weight [g] | 34.4 |
| Housing | rectangular |
| Dimensions [mm] | 41.3 x 13 x 21 |
| Materials | housing: stainless steel (316L/1.4404); Sealing: EPDM; plastics: PPSU |
| Lens material | front pane:PMMA |
| Lens alignment | side lens |
| Tightening torque [Nm] | 1; (screws) |

| Displays / operating elements | | |
|-------------------------------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
| | operation | 1 x LED, green |

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

Electrical connection

Connector: 1 x M8; coding: A; Contacts: 3





Diffuse reflection sensor

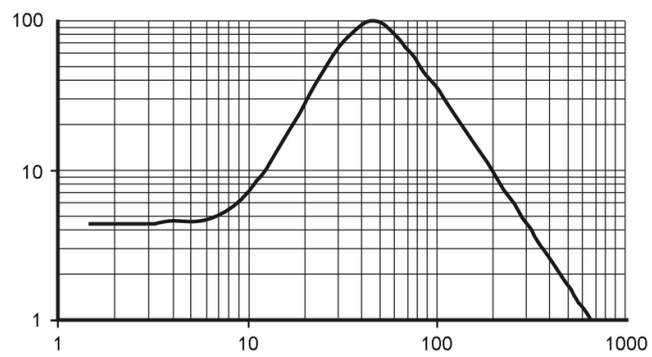
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Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor