

O6T309



Diffuse reflection sensor

O6T-FPKG/AS/4P



- 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 | | yes (non-latching) |

Monitoring range

| | | |
|---------------|------|--|
| 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 |

Interfaces

| | | |
|---------------------------------|---|---------------------------|
| Communication interface | IO-Link | |
| Transmission type | COM2 (38,4 kBaud) | |
| IO-Link revision | 1.1 | |
| SDCI standard | IEC 61131-9 | |
| Profiles | Smart Sensor - SSP 0 | Generic Profiled Sensor |
| | Function | Device identification |
| | Function | Multiple switching signal |
| SIO mode | yes | |
| Required master port class | A | |
| Min. process cycle time [ms] | 2.5 | |
| IO-Link process data (cyclical) | Function | bit length |
| | process value | 8 |
| | binary switching information | 1 |
| IO-Link functions (acyclical) | application specific tag; operating hours counter; switching cycles counter | |
| Supported DeviceIDs | Type of operation | DeviceID |
| | default | 423 |

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] | 681 | |
| UL approval | Ta | -25...40 °C |
| | Enclosure type | Type 1 |
| | voltage supply | Class 2 |
| | UL approval number | E010 |

Mechanical data

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

Displays / operating elements

| | | |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
| | Power | 1 x LED, green |

Remarks

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

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Diffuse reflection sensor

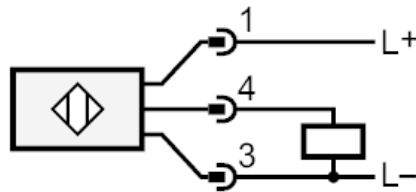
O6T-FPKG/AS/4P

Electrical connection

Connector: 1 x M8; coding: A; Contacts: 4



Connection

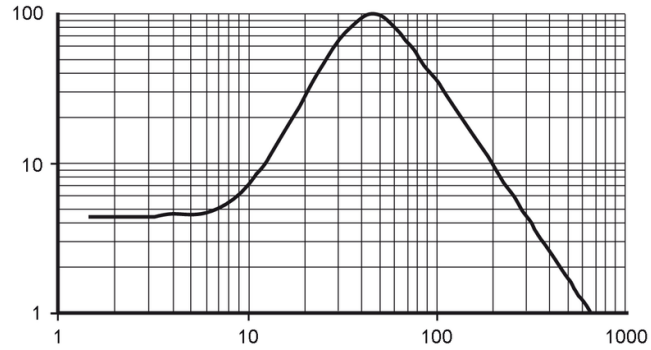


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OUT / IO-Link

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor