

1: pushbutton



Product characteristics

Diffuse reflection sensor

Rectangular, plastics

Quick disconnect

Electronic lock

External teach function

Side sensing

Range 1...600mm (Range referred to white paper 200 x 200 mm, 90 % remission)

adjustable

Electrical data

Electrical design

Operating voltage [V]

DC NPN

10...30 DC

Current consumption [mA]

< 22

Type of light

red light 660 nm

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

light-on / dark-on programmable

Voltage drop [V]

< 2.5

Current rating [mA]

200

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

2000

Monitoring range

Range [mm]

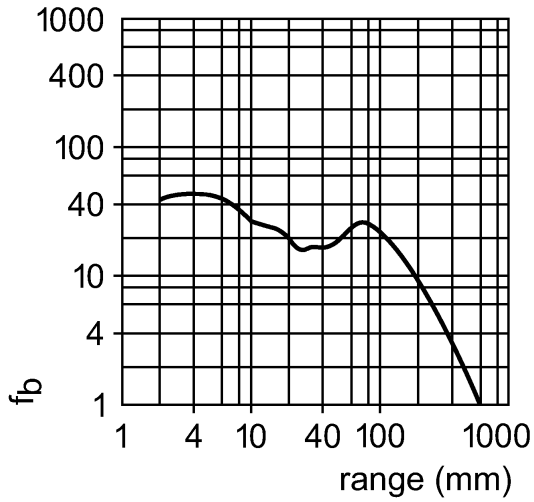
1...600 (Range referred to white paper 200 x 200 mm, 90 % remission)

Light spot diameter [mm]

60 (at maximum range)

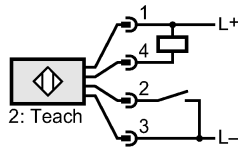
Excess gain graphs

OJ5023 - Diffuse reflection sensor - eclass: 27270903 / 27-27-09-03



| | |
|-------------------------------|---|
| Environment | |
| Ambient temperature [°C] | -25...60 |
| Protection | IP 67 |
| Tests / approvals | |
| EMC | EN 60947-5-2 |
| MTTF [Years] | 897 |
| Mechanical data | |
| Housing materials | housing: ABS; fixture: diecast zinc; LED window: SEPS; pushbutton: SEPS |
| Lens material | glass |
| Weight [kg] | 0.042 |
| Displays / operating elements | |
| Output status indication LED | yellow |
| Power LED | green |
| Function display LED | red |
| Electrical connection | |
| Connection | M8 connector |

Wiring



| | |
|------------------------|--|
| Accessories | |
| Accessories (included) | Basic clip; E20964; 2 mounting screws; M3 x 16; 2 spring washers; 2 nuts |
| Remarks | |
| Remarks | cULus - Class 2 source required |
| Pack quantity [piece] | 1 |