efector200

ifm electronic

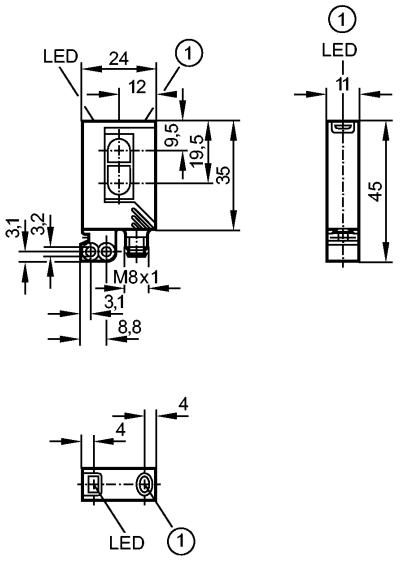
Photoelectric sensors

# OJ5044

OJH-FPKG/FO/AS
Diffuse reflection sensor
Rectangular, plastics
Connector

Electronic lock
Background suppression
External teach function
Front sensing

Range 15...400mm
(Range referred to white paper 200 x 200 mm, 90 % remission)
adjustable




1: pushbutton
Receiver in upper lens
transmitter in lower lens

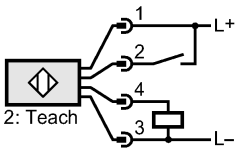
Made in Germany

| Electrical design<br>Output | | DC PNP<br>light-on / dark-on programmable |
|---|---|---|
| Light spot diameter | [mm] | < 18 ( Range 150 mm ) |
| Operating voltage | [V] | 10...30 DC |
| Current rating | [mA] | 200 |
| Short-circuit protection | | pulsed |
| Reverse polarity protection | | yes |
| Overload protection | | yes |
| Voltage drop | [V] | < 2.5 |
| Current consumption | [mA] | 25 |
| Switching frequency | [Hz] | 1000 |
| Type of light | | red light 660 nm |
| Ambient temperature | [°C] | -25...60 |
| Protection | | IP 67, III |
| EMC | | EN 60947-5-2 |
| MTTF | [Years] | 556 |
| Housing materials | | housing: ABS; fixture: diecast zinc; LED window: SEPS; pushbutton: SEPS |
| Lens material | | PMMA |
| Function display | | |
| Switching status | LED | yellow |
| Operation | LED | green |
| Connection | | M8 connector |
| Weight | [kg] | 0.042 |
| Remarks | | cULus - Class 2 source required |
| Accessories (included) | | Basic clip, E20964, 2 mounting screws, M3 x 16, 2 spring washers, 2 nuts |

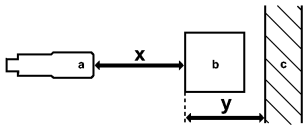
# OJ5044

## Wiring

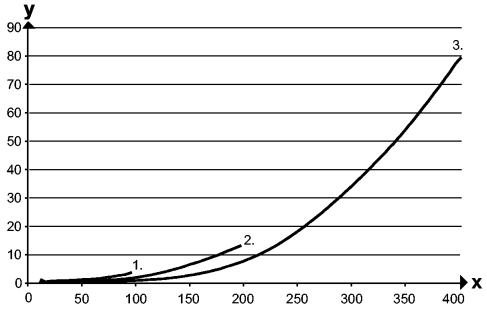



## Accuracy graph




a: sensor
b: object
c: background
x: distance sensor / object
y: min. distance object / background




Values in [mm]
1 = object black (6 % remission), background white (90 % remission)
2 = object grey (18 % remission), background white (90 % remission)
3 = object white (90 % remission), background white (90 % remission)