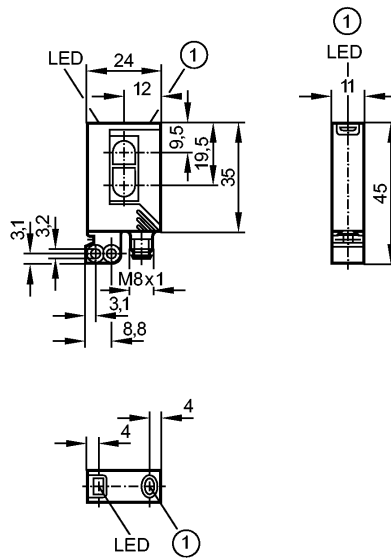


OJ5044

OJH-FPKG/FO/AS

Photoelectric sensors



1: pushbutton
Receiver in upper lens
transmitter in lower lens


Product characteristics

Diffuse reflection sensor

Rectangular, plastics

Quick disconnect

Electronic lock

Background suppression

External teach function

Front sensing

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

adjustable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...30 DC
Current consumption [mA]	25
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]	1000

Monitoring range

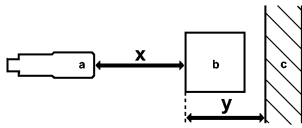
Range [mm]	15...400 (Range referred to white paper 200 x 200 mm, 90 % remission)
Light spot diameter [mm]	< 18 (Range 150 mm)

OJ5044

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Photoelectric sensors

Background suppression chart



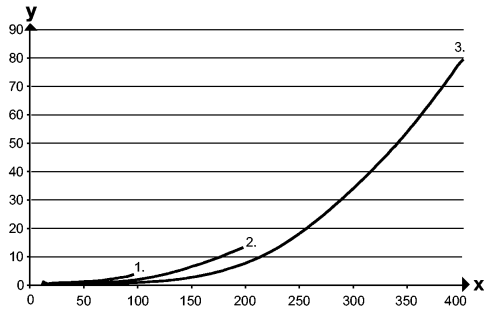
a: sensor

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 gray (18 % remission), background white (90 % remission)

3 = object white (90 % remission), background white (90 % remission)

Environment

Ambient temperature	[°C]	-25...60
Protection		IP 67

Tests / approvals

EMC		EN 60947-5-2
MTTF	[Years]	556

Mechanical data

Housing materials	housing: ABS; fixture: diecast zinc; LED window: SEPS; pushbutton: SEPS	
Lens material		PMMA
Weight	[kg]	0.036

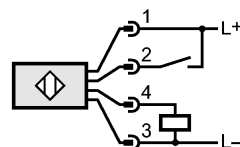
Displays / operating elements

Output status indication	LED	yellow
Power	LED	green

Electrical connection

Connection		M8 connector
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Wiring



2: Teach

Accessories

Accessories (included)	Basic clip; E20964; 2 mounting screws; M3 x 16; 2 spring washers; 2 nuts
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Remarks



OJ5044

OJH-FPKG/FO/AS

Photoelectric sensors

Remarks	cULus - Class 2 source required
Pack quantity [piece]	1