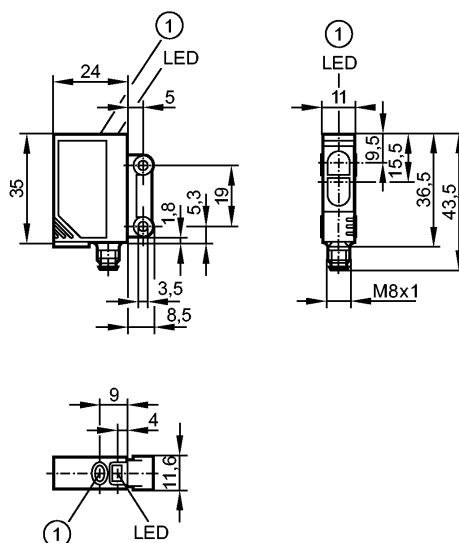


OJ5158

OJHLFPKG/SO/AS

Photoelectric sensors



1: pushbutton

Receiver in upper lens, transmitter in lower lens

Made in Germany


Product characteristics

Diffuse reflection sensor

Rectangular, plastics

Connector

Electronic lock

External teach function

Background suppression

LASER diffuse reflection sensor

Visible laser light, LASER CLASS 1

Side sensing

Range 7...150mm (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]	13
Type of light	Red light 650 nm
Life expectancy typ. [h]	50000
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	pulsed
Overload protection	yes
Switching frequency [Hz]	1000

Range

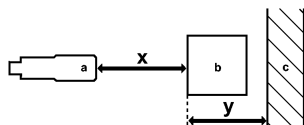
OJ5158

OJHLFPKG/SO/AS

Photoelectric sensors

Range	[mm]	7...150 (Range referred to white paper 200 x 200 mm, 90 % remission)
Smallest detectable object [Ø in mm]		0.8
Light spot diameter	[mm]	0.8

Accuracy graph



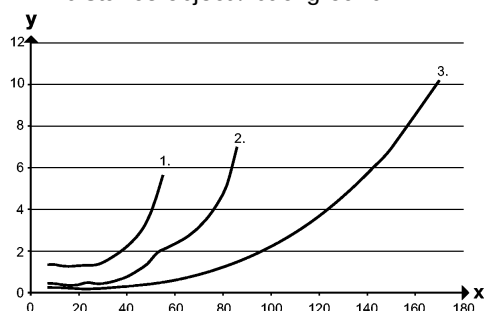
a: sensor

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)

Environment

Ambient temperature	[°C]	-10...60
Protection		IP 67

Tests / approvals

EMC		EN 60947-5-2
MTTF	[Years]	501

Mechanical data

Housing materials		housing: ABS; LED window: SEPS; pushbutton: SEPS
Lens material		PMMA
Weight	[kg]	0.043

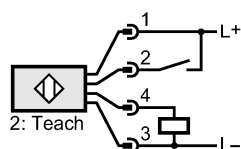
Displays / operating elements

Output status indication	LED	yellow
Operation	LED	green

Electrical connection

Connection		M8 connector
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Wiring



Accessories

OJ5158

OJHLFPKG/SO/AS

Photoelectric sensors

Accessories (included)	2 mounting screws; 2 spring washers; 2 nuts
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Remarks

Remarks	Laser light CLASS 1 LASER PRODUCT IEC 60825-1 : 2007 complies with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 2007 cULus - Class 2 source required
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Pack quantity	[piece]	1
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