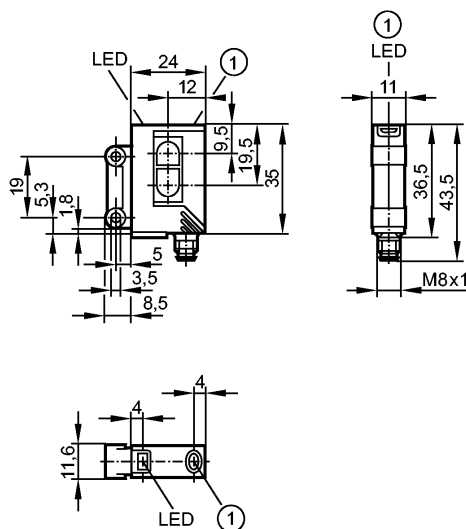




1: pushbutton

Receiver in upper lens, transmitter in lower lens



Made in Germany

Product characteristics

Diffuse reflection sensor

Rectangular, plastics

Connector

Electronic lock

Visible laser light, LASER CLASS 1

LASER diffuse reflection sensor

Background suppression

External teach function

Front sensing

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

adjustable

Electrical data

Electrical design

Operating voltage [V]

Current consumption [mA]

Type of light

Life expectancy typ. [h]

Protection class

Reverse polarity protection

Outputs

Output function

Voltage drop [V]

Current rating [mA]

Short-circuit protection

Overload protection

Switching frequency [Hz]

Range

Range [mm]

Smallest detectable object [Ø in mm]

Light spot diameter [mm]

DC PNP

10...30 DC

13

red light 650 nm

50000

III

yes

light-on / dark-on programmable

< 2.5

200

pulsed

yes

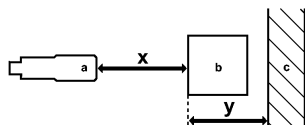
1000

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

2

2x1 (vertical)

Accuracy graph



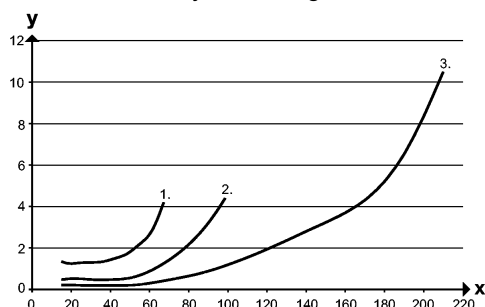
a: sensor

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)

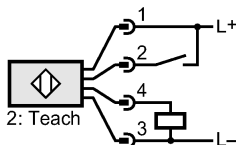
2 = object grey (18 % remission), background white (90 % remission)

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

Wiring



Accessories

Accessories (included)	2 mounting screws; 2 spring washers; 2 nuts
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
Pack quantity	[piece] 1