

1: Programming buttons

transmitter in lower lens, Receiver in upper lens



Product characteristics

Diffuse reflection sensor

Cube

Connector

Background suppression

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

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]

Range [mm]

- Object white (90 % remission)

- Object grey (18 % remission)

- Object black (6 % remission)

Light spot diameter [mm]

DC NPN

10...30 DC

30

Red light 624 nm

III

yes

light-on / dark-on programmable via pushbutton

< 2.5

200

pulsed

yes

1000

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

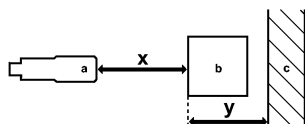
15...200

15...200

15...200

13 (at maximum range)

Accuracy graph



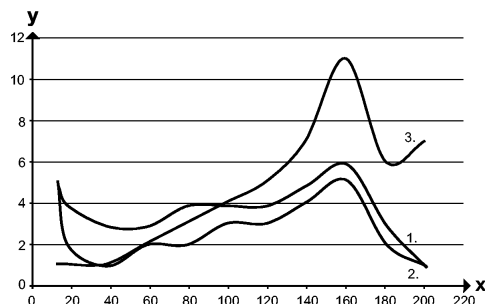
a: sensor

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]	-25...60
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Protection		IP 67
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Tests / approvals

EMC		EN 60947-5-2
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MTTF	[Years]	366
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Mechanical data

Housing materials		Zinc Alloy; PEI
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Lens material		PEI
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Weight	[kg]	0.062
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Displays / operating elements

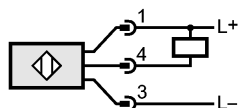
Output status indication	LED	yellow
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Operation	LED	green
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Electrical connection

Connection		M12 connector
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Wiring



Accessories

Accessories (included)		1 lock nut
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Remarks

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