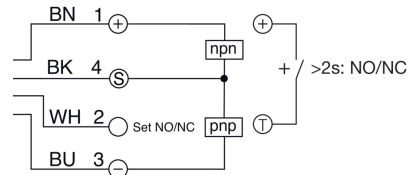
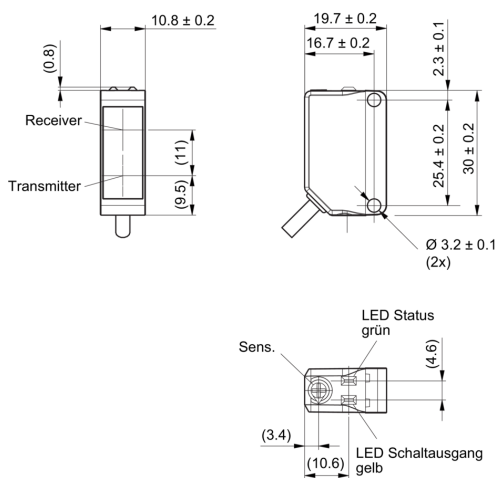




214912 OR33-RSN-PT-G3-2C Retroreflective sensor

- Compact design
- Long range
- Push-pull output with npn or npn function
- Switch for light/dark switching
- IO-Link
- Measuring function



BK: black

BN: brown

BU: blue

WH: white

Function



Technical data (typ.)

+20°C, 24 V DC

Electrical features

Service voltage	10 ... 30 V DC
No-load current (max.)	< 30 mA
Inverse polarity protection	Yes
Short-circuit protection	Yes

Mechanical features

Housing dimensions	31 x 20 x 11 mm
Housing length	20 mm
Housing height	31 mm
Housing width	11 mm
Housing material	Plastic
Material of cable	PVC
Material	Plastic (Window / optics)
Weight	38 g

Certifications, approvals

Protection class	III
Approvals	UL



214912 OR33-RSN-PT-G3-2C Retroreflective sensor

Technical data (typ.)

+20°C, 24 V DC

General features

Operating principle	Retroreflective sensor
Evaluation	digital
Design	Cuboid design

Output, input, interface

Switching output	Push-pull, 100 mA, NO/NC, switchable
Voltage drop (max.)	1 V
Interface	IO-Link (V1.1, COM2 38.4 kBd, Smart Sensor Profile)

Optical data

Light source	LED
Color	Red
Wavelength	620 nm
Light spot size	Ø 95 mm (at distance of 2500 mm)

Detection range, measuring range, tolerance limits

Range	100 ... 5000 mm
Range during operation with	■ 3000 mm (R 42) ■ 1400 mm (R 19 x 54) ■ 1500 mm (RFP 50)

Referring reflector	Ø 84 mm, R 84
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Display, operation

Sensitivity adjustment	Potentiometer or IO-Link
Display	LED green - Status, yellow - Switching output 1

Time behavior

Switching frequency	1000 Hz
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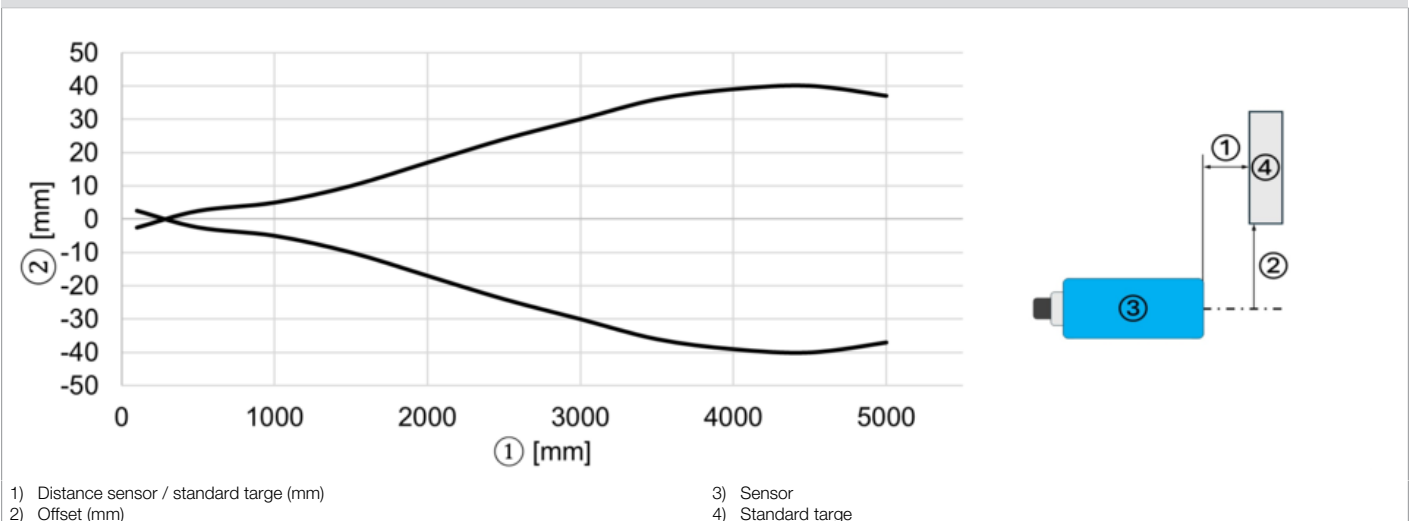
Ambient conditions

Ambient temperature during operation	-25 ... +60 °C
Protection type	IP 67

Electrical connection

Connection	Cable, 2.0 m, 4-pin (flying leads)
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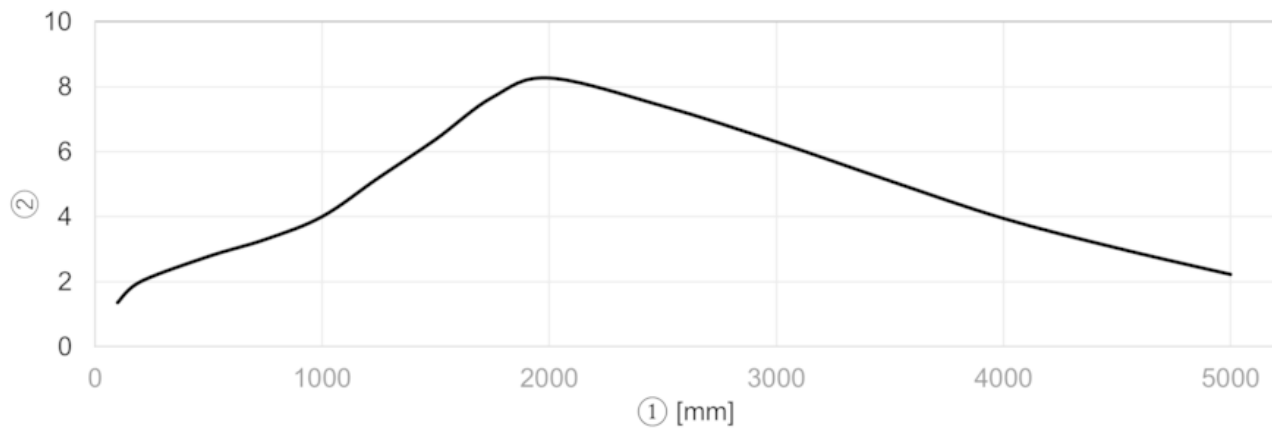
Typical detection diagram (white 90%)





214912
OR33-RSN-PT-G3-2C
Retroreflective sensor

Typical functional reserve (reflector R84)



- 1) Distance sensor / object (mm)
 2) Functional reserve

More information / accessories

<https://www.di-soric.com/214912>