

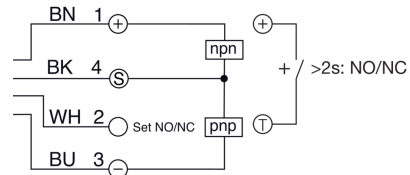
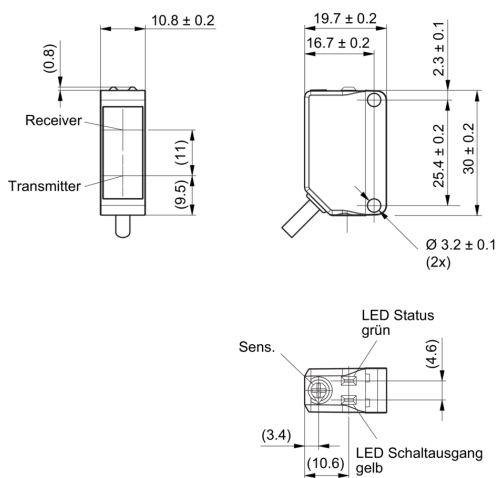


214919

OT33-RMN-PT-G3-2C

Retroreflective diffuse 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



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Technical data (typ.)

+20°C, 24 V DC

General features

Operating principle	Retroreflective diffuse 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 45 mm (at distance of 500 mm)

Detection range, measuring range, tolerance limits

Range	1 ... 1000 mm
Standardized measuring plate	200 x 200 mm (white)

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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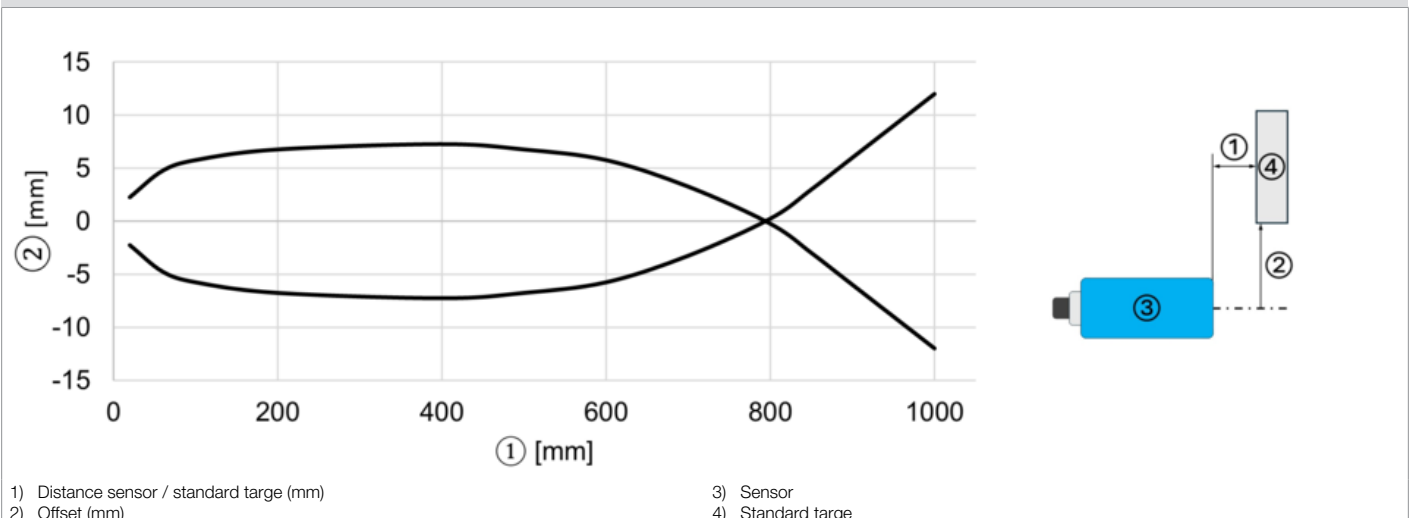
Ambient conditions

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

Electrical connection

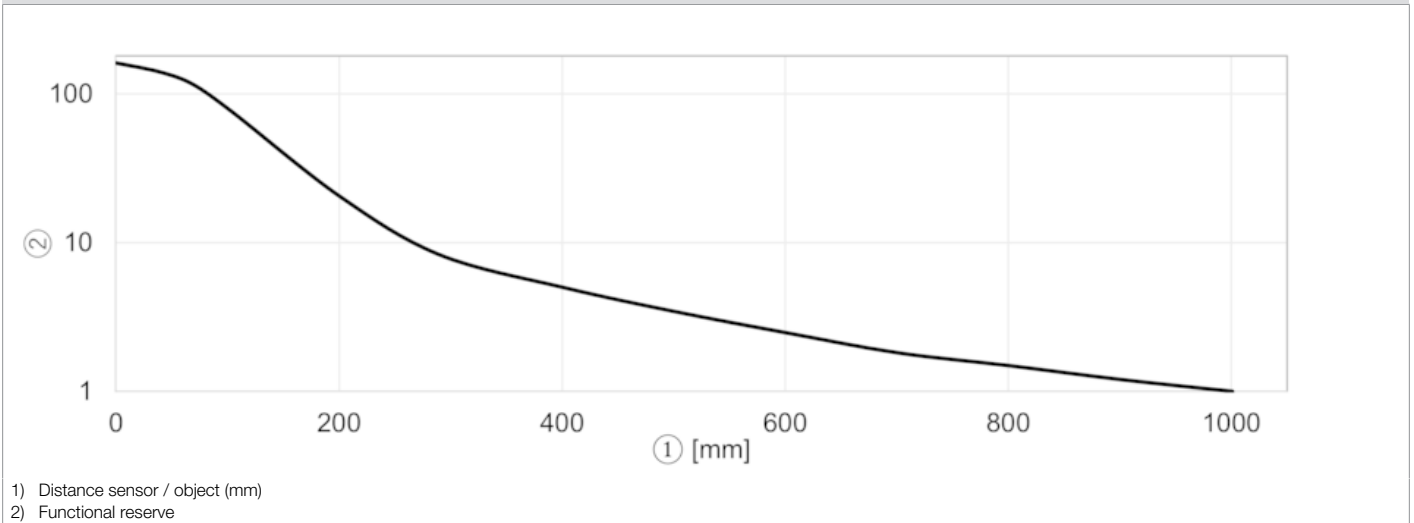
Connection	Cable, 2.0 m, 4-pin (flying leads)
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Typical detection diagram (white 90%)




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Typical functional reserve (reflector R84)



More information / accessories

<https://www.di-soric.com/214919>