

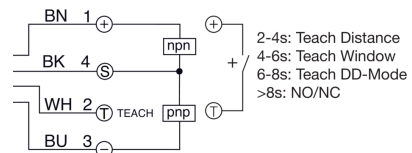
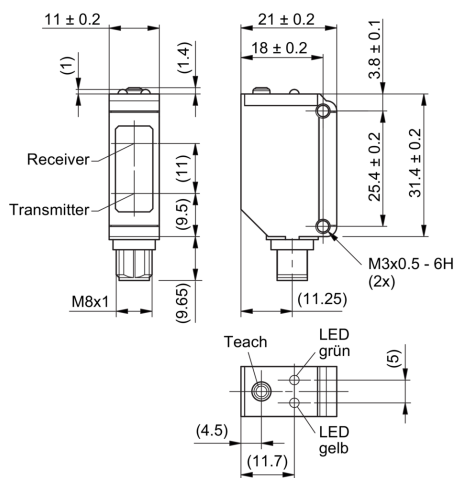


214904

OH34-LRML-TI-G3-T4

Retroreflective diffuse sensors with background suppression

- Compact stainless steel housing
- Protection class IP 69K
- ECOLAB approval
- Long range
- Ideal background suppression
- Laser red light with small light spot
- DD mode, evaluates intensity and distance simultaneously
- Push-pull output with pnp or npn function
- Switch for light/dark switching
- IO-Link
- Sensing range and window function can be parameterized in mm



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	32 x 21 x 11 mm
Housing length	21 mm
Housing height	32 mm
Housing width	11 mm
Housing material	Stainless steel
Material	Plastic (Window / optics)
Weight	65 g

Certifications, approvals

Protection class	III
Approvals	UL


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Retroreflective diffuse sensors with background suppression
Technical data (typ.)
+20°C, 24 V DC
General features

Operating principle	Diffuse sensor with background suppression
Evaluation	digital
Design	Cuboid design
Werkseinstellung	Switching frequency (40 Hz (PRECISION))

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	Laser
Laser class	CLASS 1 LASER PRODUCT
Color	Red
Wavelength	650 nm
Background suppression	Yes
Light spot size	Ø 1 mm (at distance of 300 mm)

Detection range, measuring range, tolerance limits

Range	20 ... 600 mm
Standardized measuring plate	200 x 200 mm

Display, operation

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

Time behavior

Switching frequency	40 Hz ... 200 Hz (40 Hz (HIGH FUNCTIONAL RELIABILITY), 200 Hz (SPEED))
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Ambient conditions

Ambient temperature during operation	-25 ... +60 °C
Protection type	IP 67 / IP 69K

Electrical connection

Connection	Connector, M8, 4-pin
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Accessories

Connection cable	TK ... /4
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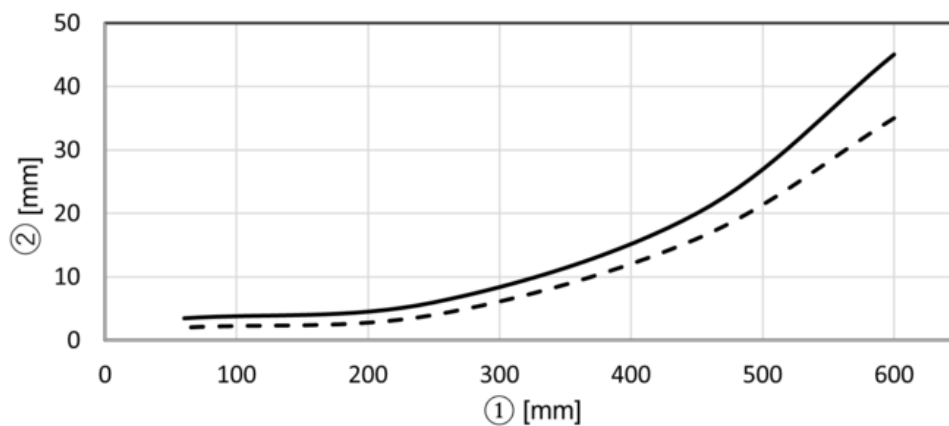


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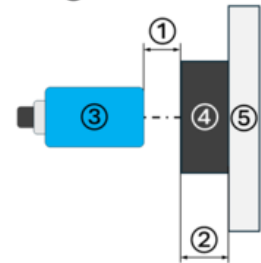
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Retroreflective diffuse sensors with background suppression

Background suppression - precise mode



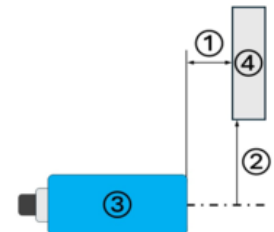
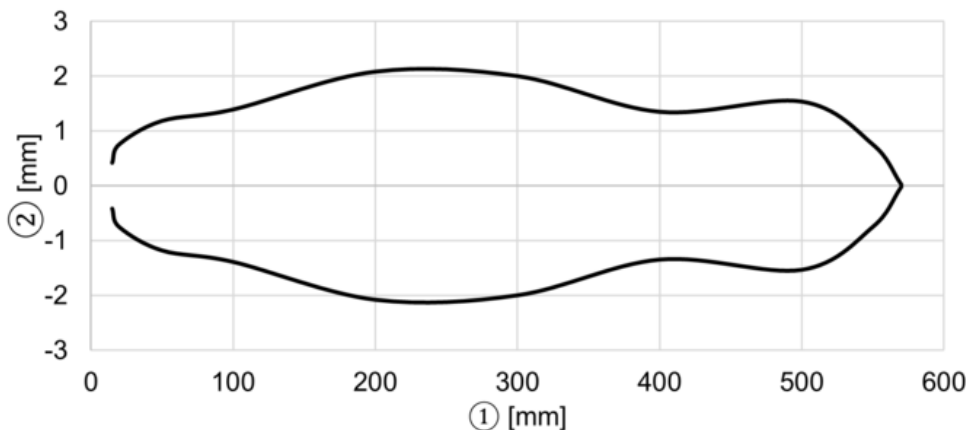
90% / 90% ⑥
6% / 90% ⑦



- 1) Distance sensor / object (mm)
- 2) Minimum distance between object and background (mm)
- 3) Sensor

- 4) object
- 5) Typical behavior - object black (6%) / background white (90%)
- 6) Typisches Verhalten - Objekt schwarz (6%) / Hintergrund weiß (90%)

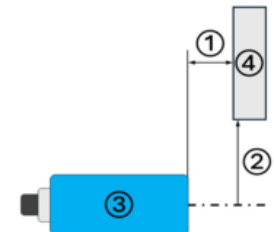
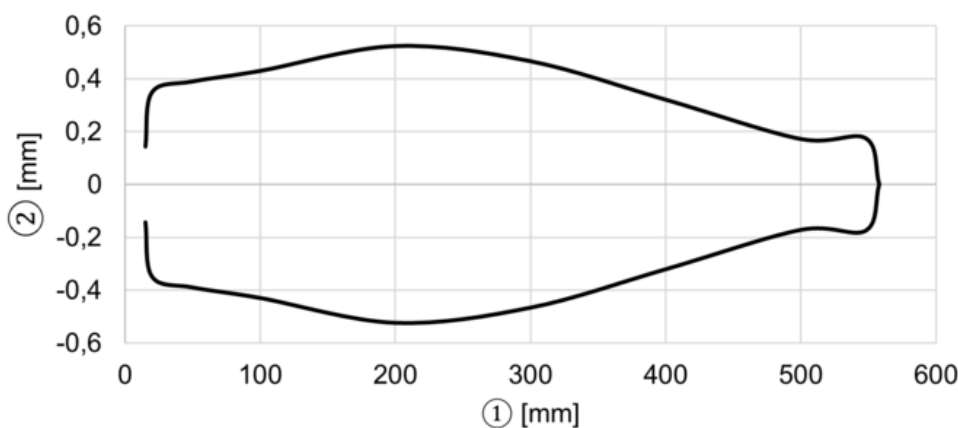
Typical detection diagram (white 90%) - Precise mode (Factory setting)



- 1) Distance sensor / standard target (mm)
- 2) Offset (mm)

- 3) Sensor
- 4) Standard target

Typical detection diagram (white 90%) - Fast mode



- 1) Distance sensor / standard target (mm)
- 2) Offset (mm)

- 3) Sensor
- 4) Standard target

More information / accessories

<https://www.di-soric.com/214904>



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