

O200.GR-GW1J.72NV/E026_H006

Diffuse sensors with background suppression - miniature

Article number: 11212635

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Manipulation-proof, simple teach-in via qTeach or line teach
- IO-Link for extended parameterization options and additional diagnostic data
- Quick mounting by means of M3 threaded bushes made of stainless steel



Picture similar



Technical data

General data

Type	Background suppression
Sensing distance Tw	15 ... 72 mm
Sensing range Tb	7 ... 80 mm
Smallest object recognizable typ.	0.25 mm at 40 mm
Power on indication	LED green
Alignment / soiled lens indicator	Flashing output indicator
Output indicator	LED yellow
Sensing distance adjustment	Teach-in and IO-Link
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1,5°

Light Source

Light source	Pulsed red LED
Wave length	644 nm

Electrical data

Response time / release time	< 0.25 ms (High Speed Mode)
Voltage supply range +Vs	10 ... 30 VDC
Current consumption max. (no load)	40 mA (@ 10 VDC)
Current consumption typ.	16 mA (@ 24 VDC)
Voltage drop Vd	<2 VDC

Electrical data

Output function	Light / dark operate
Output circuit	Push-pull
Output current	50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Communication interface

Interface	IO-Link V1.1
IO-Link port type	Class A
Baud rate	230.4 kBaud (COM 3)
Cycle time	≥ 0.6 ms
Process data length	32 Bit
Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Adjustable parameters	Switching point Switching hysteresis Time filters LED status indicators Output logic Counter Operation mode Deactivate the sensor element Find Me function Teach-in mode

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Technical data

Communication interface

Additional data	Excess gain
	Operating cycles
	Device temperature

Mechanical data

Width / diameter	8 mm
Height / length	25.1 mm
Depth	14.1 mm
Design	Rectangular
Mechanical mounting	Threaded sleeves M3 (stainless steel)

Mechanical data

Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Flylead connector M8 4 pin, L=200 mm
Cable characteristics	PVC / PVC 4 x 0.08 mm ²

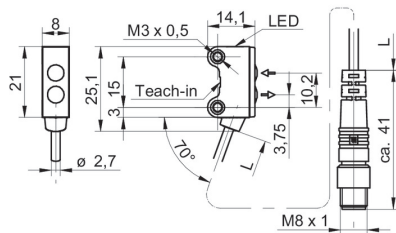
Ambient conditions

Protection class	IP 67
Operating temperature	-30 ... +50 °C

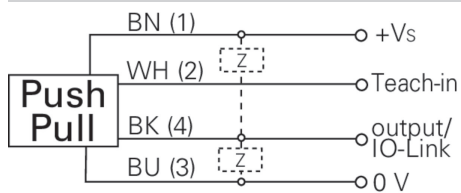
Remarks

- qTeach

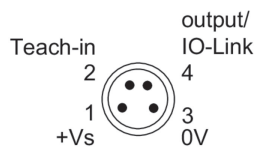
Dimension drawing



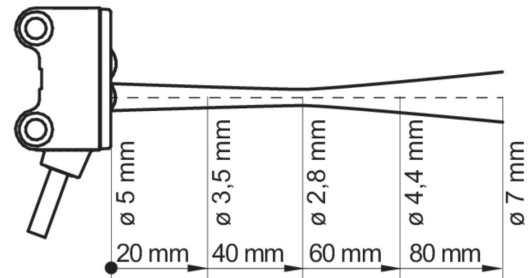
Connection diagram



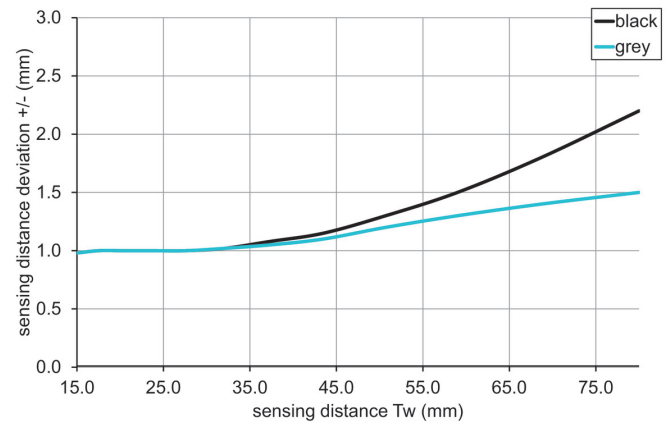
Pin assignment



Beam characteristic (typically)



Sensing distance diagram



Hysteresis curve

