

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
- Robust housing with stainless steel spacer sleeves



Picture similar



Technical data

General data

Type	Background suppression
Light source	Pulsed red LED
Sensing distance Tw	15 ... 72 mm
Sensing range Tb	7 ... 80 mm
Smallest object recognizable typ.	0,25 mm at 40 mm
Alignment / soiled lens indicator	Flashing output indicator
Power on indication	LED green
Output indicator	LED yellow
Sensing distance adjustment	Teach-in and IO-Link
Wave length	644 nm
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1,5°

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
Output function	Light / dark operate

Electrical data

Output circuit	Push-pull
Output current	< 50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Communication interface

Baud rate	230,4 kBaud (COM 3)
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

IO-Link port type	Class A
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

Interface	IO-Link V1.1
Additional data	Excess gain Operating cycles Device temperature

O200.GR-GW1J.72NV/E026

Diffuse sensors with background suppression - miniature

Article number: 11210293

Technical data

Communication interface

Cycle time $\geq 0,6$ ms

Mechanical data

Width / diameter 8 mm
 Height / length 25,1 mm
 Depth 14,1 mm
 Type Rectangular
 Mechanical mounting Sleeve smooth (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 mm²

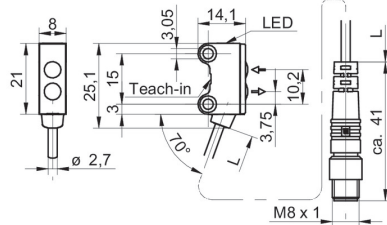
Ambient conditions

Protection class IP 67
 Operating temperature -25 ... +50 °C

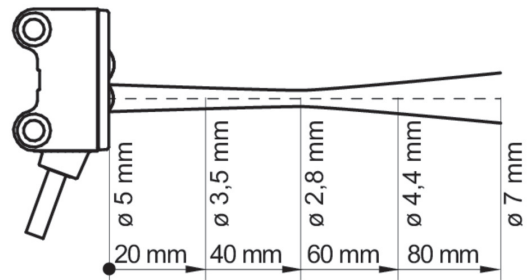
Remarks

- qTeach

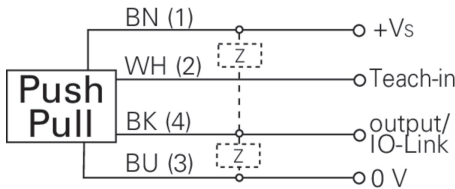
Dimension drawing



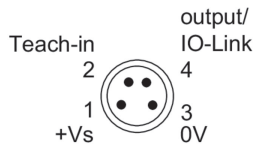
Beam characteristic (typically)



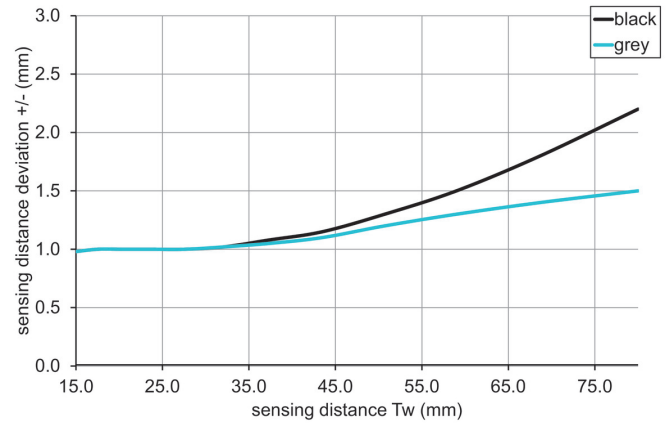
Connection diagram



Pin assignment



Sensing distance diagram



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Hysteresis curve

