

O200.GR.F-GW1J.72NV/E026_H006

Diffuse sensors with background suppression - miniature

Article number: 11212636

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- V-optics for detection of shiny or transparent objects
- 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		Electrical data	
Type	Background suppression	Output function	Light / dark operate
Version	Fixed focus	Output circuit	Push-pull
Light source	Pulsed red LED	Output current	< 50 mA
Sensing distance Tw	8 ... 13,5 mm	Short circuit protection	Yes
Sensing range Tb	3 ... 15 mm	Reverse polarity protection	Yes
Smallest object recognizable typ.	0,05 mm at 10 mm	Communication interface	
Alignment / soiled lens indicator	Flashing output indicator	Baud rate	230,4 kBaud (COM 3)
Power on indication	LED green	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
Output indicator	LED yellow	IO-Link port type	Class A
Sensing distance adjustment	Teach-in and IO-Link	Process data length	32 Bit
Wave length	644 nm	Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Suppression of reciprocal influence	Yes	Interface	IO-Link V1.1
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		

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Communication interface

Additional data	Excess gain
	Operating cycles
	Device temperature
Cycle time	≥ 0,6 ms

Mechanical data

Width / diameter	8 mm
Height / length	25,1 mm
Depth	14,1 mm
Type	Rectangular

Mechanical data

Mechanical mounting	Threaded sleeves M3 (stainless steel)
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

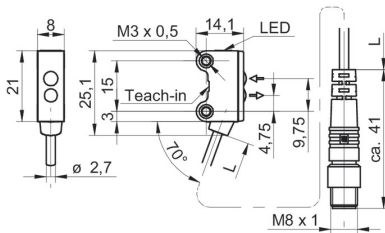
Ambient conditions

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

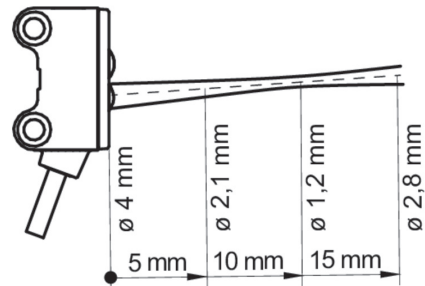
Remarks

- qTeach

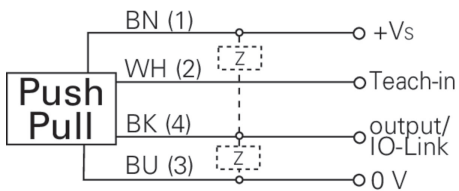
Dimension drawing



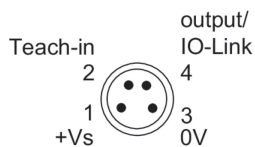
Beam characteristic (typically)



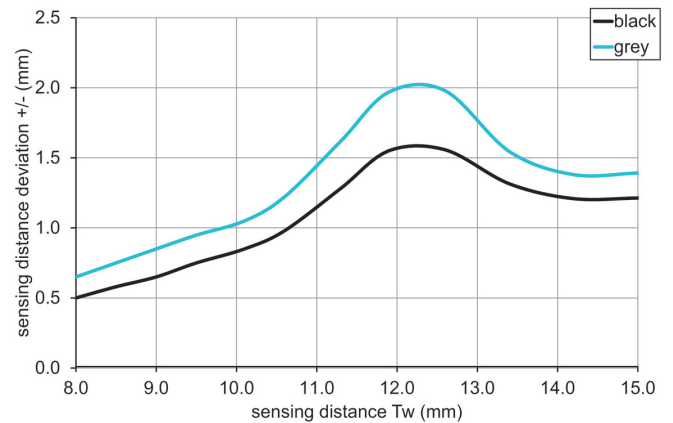
Connection diagram



Pin assignment



Sensing distance diagram



Hysteresis curve

