Baumer
Passion for Sensors

Diffuse sensors with intensity difference

O200.ZR-GW1J.72NV/E026

Article number: 11231246

overview

- Reliable intensity-based object detection
- 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

IO-Link CE cULus LISTED

Technical data

general data	
type	intensity difference
light source	pulsed red LED
sensing distance Tw	20 … 200 mm
smallest object recognizable typ.	2 mm at 100 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
beam type	point
alignment optical axis	< 1,5°
electrical data	
response time / release time	< 0,25 ms
jitter	< 0,06 ms
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 time filters LED status indicators output logic counter 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	signal strength excess gain operating cycles device temperature
cycle time	≥ 0,6 ms

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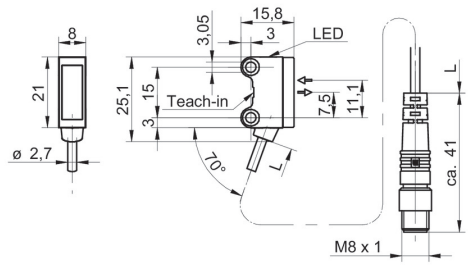
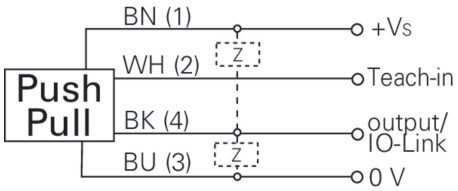
mechanical data	
width / diameter	8 mm
height / length	25,1 mm
depth	15,8 mm
type	rectangular
mechanical mounting	sleeve smooth (stainless steel)
housing material	plastic (ASA, PMMA)

mechanical data	
front (optics)	PMMA
connection types	flylead connector M8 4 pin, L=200 mm
cable characteristics	PVC / PVC 4 x 0,08 mm²
ambient conditions	
operating temperature	-25 … +50 °C
protection class	IP 67

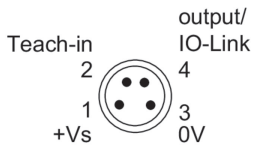
dimension drawing



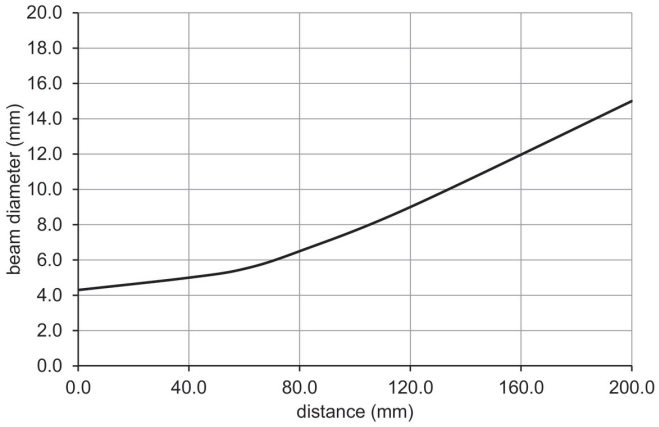
connection diagram



pin assignment



beam characteristic (typically)



relative receiving signal