Baumer
Passion for Sensors

Diffuse sensors with background suppression

O200.GL-GW1J.72NV/F040_H006

Article number: 11230773

overview

- Outstanding reliability and unrivalled immunity against ambient light
- Focused laser beam for small objects or gaps
- 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

IO-Link

Technical data

general data	
type	background suppression
light source	pulsed red laser diode
sensing distance Tw	20 … 120 mm
sensing range Tb	3 … 132 mm
smallest object recognizable typ.	0,05 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
laser class	1
distance to focus	40 mm
wave length	680 nm
suppression of reciprocal influence	yes
beam type	point
alignment optical axis	< 1,5°
electrical data	
response time / release time	≤ 0,25 ms (High Speed Mode)
jitter	≤ 0,06 ms (High Speed Mode)
voltage supply range +Vs	10 … 30 VDC
current consumption max. (no load)	20 mA (@ 10 VDC)

electrical data	
current consumption typ.	10 mA (@ 24 VDC)
voltage drop Vd	< 2 VDC
output function	light / dark operate
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

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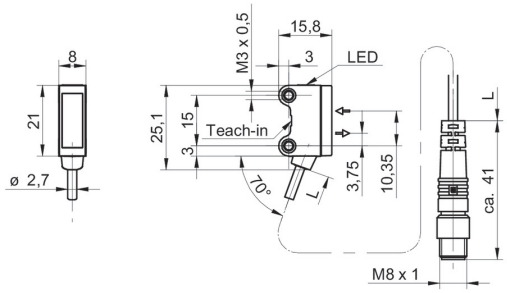
Technical data

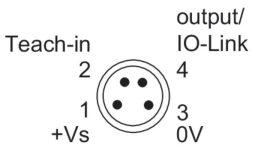
communication interface	
additional data	excess gain operating cycles device temperature
cycle time	≥ 0,6 ms
mechanical data	
width / diameter	8 mm
height / length	25,1 mm
depth	15,8 mm
type	rectangular

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 mm²
ambient conditions	
operating temperature	-20 … +50 °C
protection class	IP 67

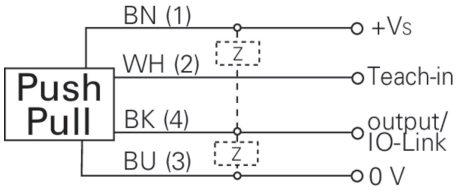
dimension drawing



pin assignment



connection diagram

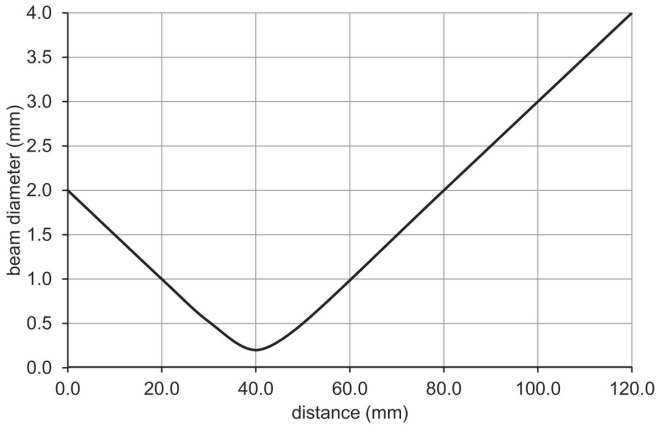


laser warning

CLASS 1 LASER PRODUCT

IEC 60825-1/2014
Complies with 21 CFR 1040.10 and 1040.11
except for deviations pursuant to laser
notice No. 50, dated June 24, 2007

beam characteristic (typically)



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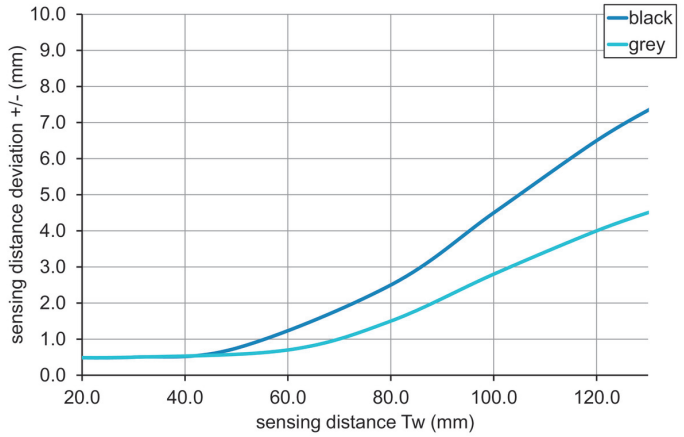
sensing distance diagram



hysteresis curve