Baumer
Passion for Sensors

Diffuse sensors with background suppression

O200.GL-GW1J.72CV/E022_F060

Diffuse sensors with background suppression - miniature

Article number: 11230771

overview

- Outstanding reliability and unrivalled immunity against ambient light
- Linear beam for complete detection of irregular, perforated objects
- Precise detection thanks to laser light source
- 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 c UL us LISTED

Technical data

general data	
type	background suppression
version	line beam
light source	pulsed red laser diode
sensing distance Tw	20 … 120 mm
sensing range Tb	3 … 122 mm
smallest object recognizable typ.	8 mm at 60 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	60 mm
wave length	680 nm
suppression of reciprocal influence	yes
beam type	line
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

electrical data	
current consumption max. (no load)	20 mA (@ 10 VDC)
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

2020-06-09 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

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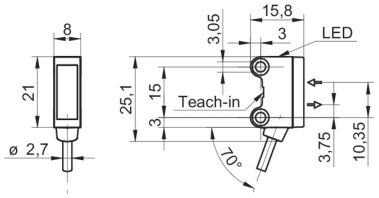
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Technical data

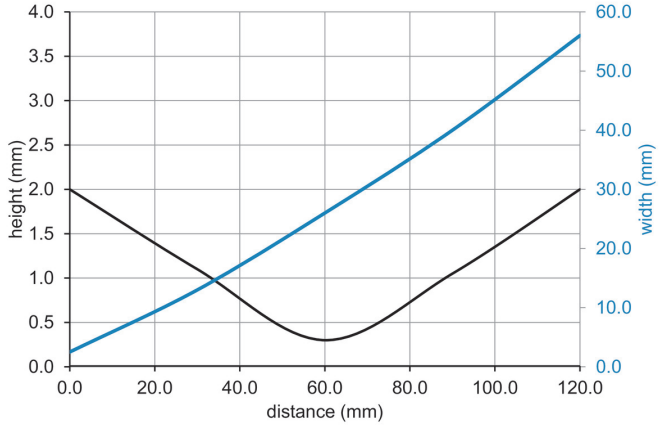
communication interface	
process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
interface	IO-Link V1.1
additional data	excess gain operating cycles device temperature
cycle time	≥ 0,6 ms
mechanical data	
width / diameter	8 mm
height / length	25,1 mm

mechanical data	
depth	15,8 mm
type	rectangular
mechanical mounting	sleeve smooth (stainless steel)
housing material	plastic (ASA, PMMA)
front (optics)	PMMA
connection types	cable 4 pin, 2 m
cable characteristics	PVC / PVC 4 x 0,08 mm²
ambient conditions	
operating temperature	-20 … +50 °C
protection class	IP 67

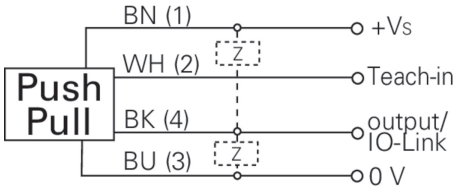
dimension drawing



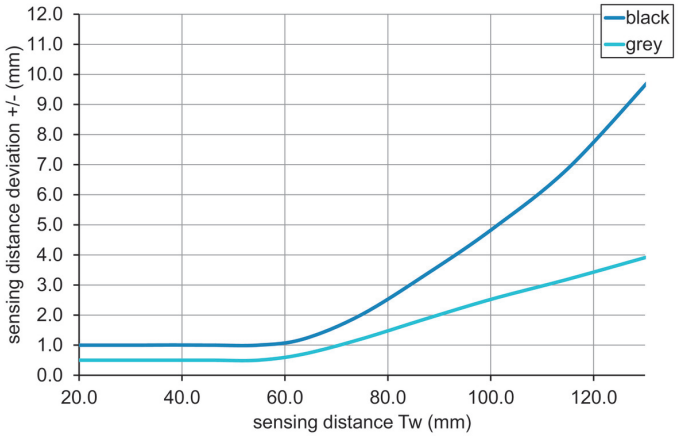
beam characteristic (typically)



connection diagram



sensing distance 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

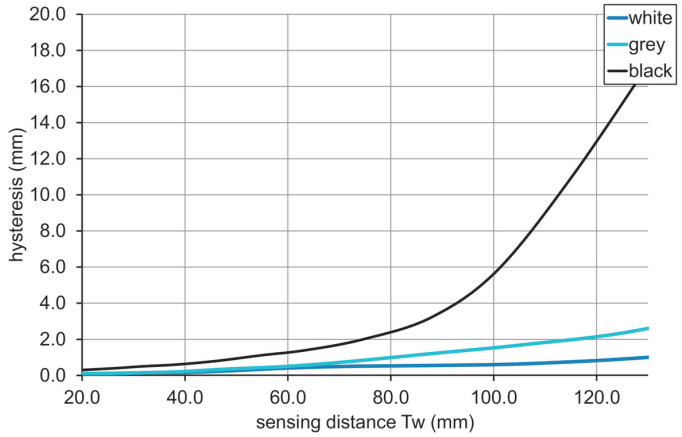
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hysteresis curve



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