

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
- Robust housing with stainless steel spacer sleeves



Technical data

general data		electrical data	
type	background suppression	current consumption typ.	10 mA (@ 24 VDC)
light source	pulsed red laser diode	voltage drop Vd	< 2 VDC
sensing distance Tw	20 ... 120 mm	output function	light / dark operate
sensing range Tb	3 ... 132 mm	output circuit	push-pull
smallest object recognizable typ.	0,05 mm at 40 mm	output current	< 50 mA
alignment / soiled lens indicator	flashing output indicator	short circuit protection	yes
power on indication	LED green	reverse polarity protection	yes
output indicator	LED yellow	communication interface	
sensing distance adjustment	Teach-in and IO-Link	baud rate	230,4 kBaud (COM 3)
laser class	1	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
distance to focus	40 mm	IO-Link port type	Class A
wave length	680 nm	process data length	32 Bit
suppression of reciprocal influence	yes	process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
beam type	point	interface	IO-Link V1.1
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)		

Technical data

communication interface

additional data	excess gain operating cycles device temperature
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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

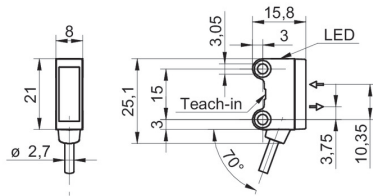
mechanical data

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 mm ²

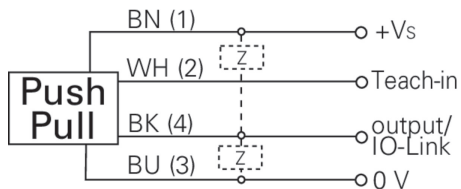
ambient conditions

operating temperature	-20 ... +50 °C
protection class	IP 67

dimension drawing



connection diagram



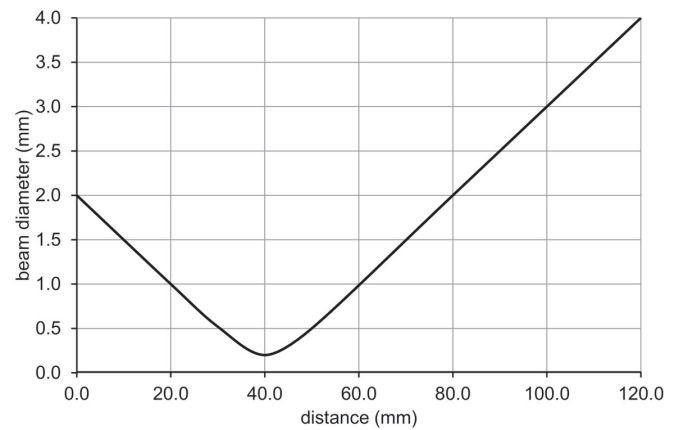
laser warning



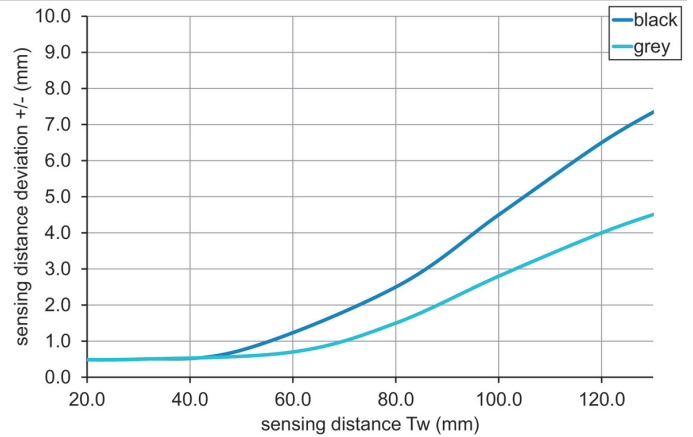
IEC 60825-1/2014

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)



sensing distance diagram



O200.GL-GW1J.72CV/F040

Diffuse sensors with background suppression - miniature

Article number: 11230758

hysteresis curve

