

# O200.RL.C-GW1J.72NV/FIN1

Article number: 11223759

**overview**

- Extended functional reserve capacities for maximum reliability
- Object detection through smallest holes and gaps without blind area thanks to single-lens optics
- Parallel laser beam for uniform detection over the measuring range
- 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


*Picture similar*

**Technical data**
**general data**

type	retro-reflective sensor
version	single lens optics
light source	pulsed red laser diode
actual range Sb	0,8 m
nominal range Sn	1,2 m
smallest object recognizable typ.	3 mm at 500 mm
polarization filter	yes
alignment / soiled lens indicator	flashing output indicator
output indicator	LED yellow
power on indication	LED green
sensitivity adjustment	Teach-in and IO-Link
laser class	1
distance to focus	parallel beam
wave length	680 nm
suppression of reciprocal influence	yes
alignment optical axis	< 1,5°

**electrical data**

response time / release time	< 0,05 ms (High Speed Mode)
jitter	< 0,02 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
<b>communication interface</b>	
baud rate	230,4 kBaud (COM 3)
adjustable parameters	switching point 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

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## Technical data

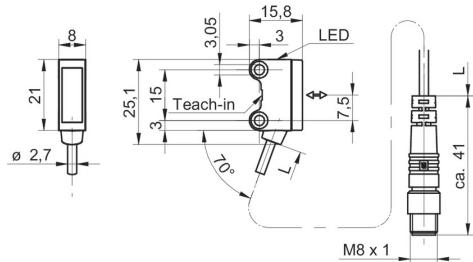
### communication interface

interface	IO-Link V1.1
additional data	signal strength 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

## dimension drawing



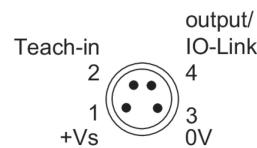
## mechanical data

type	rectangular
mechanical mounting	sleeve smooth (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 <sup>2</sup>

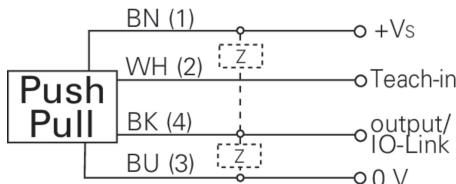
### ambient conditions

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

## pin assignment



## connection diagram



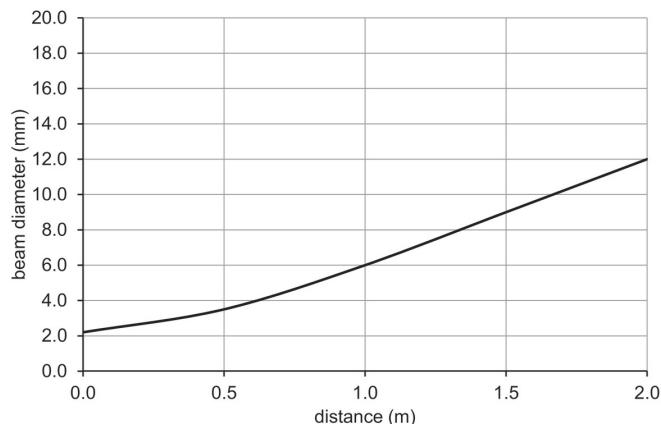
## laser warning

**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)



**excess gain curve**

