

## Overview

- Most secure object detection due to the barrier principle
- 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	Through beam sensor
Emitter / receiver	Receiver
Light source	Use with pulsed red laser diode
Actual range $S_b$	5 m
Nominal range $S_n$	6 m
Smallest object recognizable typ.	3 mm (0,5 mm with aperture)
Alignment / soiled lens indicator	Flashing output indicator
Output indicator	LED yellow
Power on indication	LED green
Sensitivity adjustment	Teach-in and IO-Link
Suppression of reciprocal influence	Yes

### Electrical data

Response time / release time	< 0.1 ms < 0.12 ms
Jitter	< 0.03 ms < 0.05 ms
Voltage supply range +Vs	10 ... 30 VDC
Current consumption max. (no load)	20 mA (@ 10 VDC)
Current consumption typ.	10 mA (@ 24 VDC)
Voltage drop $V_d$	<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

# O200.EL-GW1J.72NV/FREC

Through beam sensors - miniature

Article number: 11224792

## Technical data

### Mechanical data

Width / diameter	8 mm
Height / length	25.1 mm
Depth	14.1 mm
Design	Rectangular
Mechanical mounting	Sleeve smooth (stainless steel)
Housing material	Plastic (ASA, PMMA)

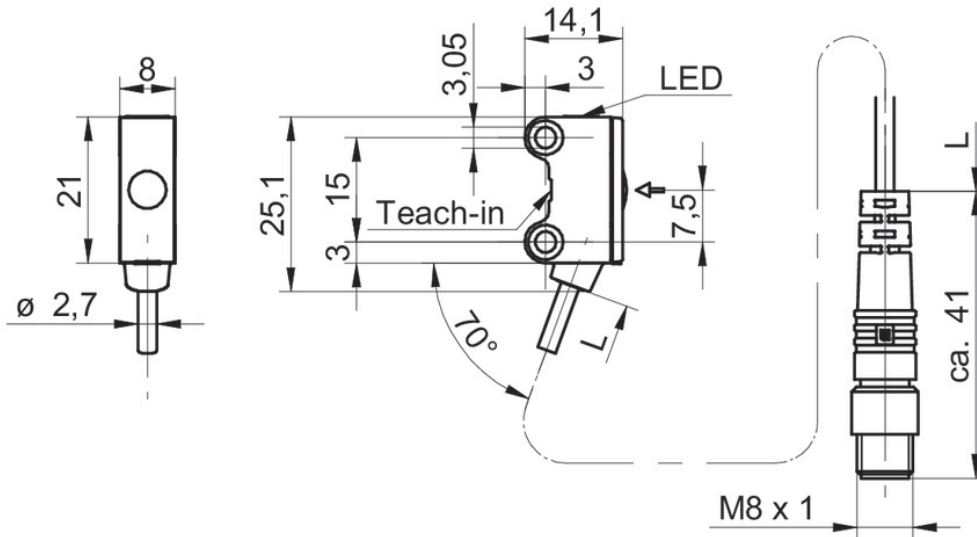
### Mechanical data

Front (optics)	PMMA
Connection types	Flylead connector M8 4 pin, L=200 mm
Cable characteristics	PVC / PVC 4 x 0.08 mm <sup>2</sup>

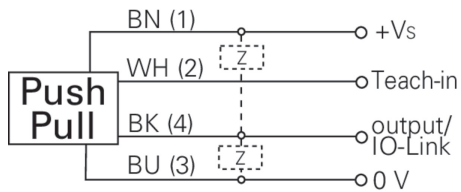
### Ambient conditions

Operating temperature	-25 ... +50 °C
Protection class	IP 67

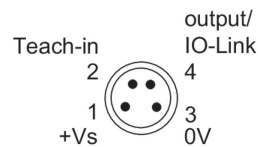
## Technical drawings



## Connection diagram



## Pin assignment



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## Excess gain curve

