Through beam sensors

O200.EL-GW1J.72NV/FREC

Through beam sensors - miniature

Article number: 11224792

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

Technical data

general data	
type	through beam sensor
emitter / receiver	receiver
light source	use with pulsed red laser diode
actual range Sb	5 m
nominal range Sn	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 Vd	< 2 VDC
output function	light / dark operate
output circuit	push-pull

electrical data	
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
mechanical data	
width / diameter	8 mm

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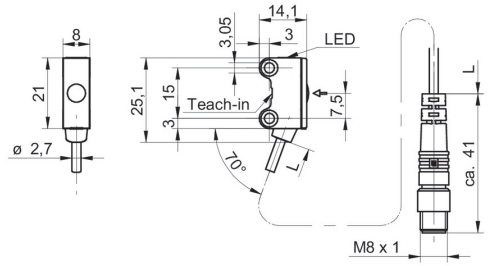
Technical data

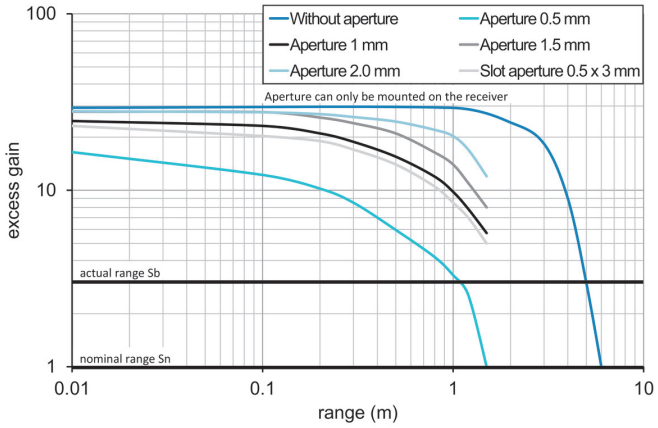
mechanical data	
height / length	25,1 mm
depth	14,1 mm
type	rectangular
mechanical mounting	sleeve smooth (stainless steel)
housing material	plastic (ASA, PMMA)
front (optics)	PMMA

mechanical data	
connection types	flylead connector M8 4 pin, L=200 mm
cable characteristics	PVC / PVC 4 x 0,08 mm²
ambient conditions	
operating temperature	-25 … +50 °C
protection class	IP 67

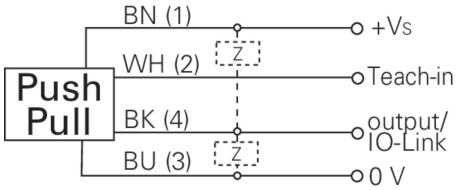
dimension drawing



excess gain curve



connection diagram



pin assignment