

O200.EL-GW1J.72CV/FREC

Through beam sensors - miniature

Article number: 11228767

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		electrical data	
type	through beam sensor	output current	< 50 mA
emitter / receiver	receiver	short circuit protection	yes
light source	use with pulsed red laser diode	reverse polarity protection	yes
actual range Sb	5 m	communication interface	
nominal range Sn	6 m	baud rate	230,4 kBaud (COM 3)
smallest object recognizable typ.	3 mm (0,5 mm with aperture)	adjustable parameters	switching point time filters LED status indicators output logic counter deactivate the sensor element Find Me function Teach-in mode
alignment / soiled lens indicator	flashing output indicator	IO-Link port type	Class A
output indicator	LED yellow	process data length	32 Bit
power on indication	LED green	process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
sensitivity adjustment	Teach-in and IO-Link	interface	IO-Link V1.1
suppression of reciprocal influence	yes	additional data	signal strength excess gain operating cycles device temperature
electrical data		cycle time	≥ 0,6 ms
response time / release time	< 0,1 ms < 0,12 ms	mechanical data	
jitter	< 0,03 ms < 0,05 ms	width / diameter	8 mm
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		

Technical data

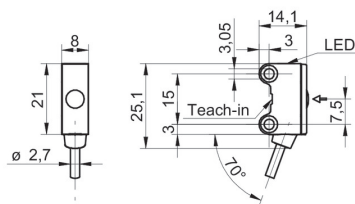
mechanical data

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

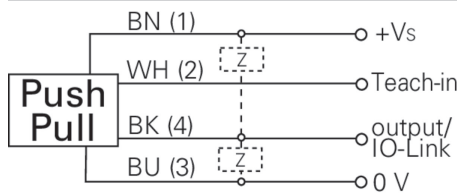
mechanical data

connection types	cable 4 pin, 2 m
cable characteristics	PVC / PVC 4 x 0,08 mm ²
ambient conditions	
operating temperature	-25 ... +50 °C
protection class	IP 67

dimension drawing



connection diagram



excess gain curve

