

overview

- Reliable intensity-based object detection
- 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	intensity difference	output circuit	push-pull
light source	pulsed red LED	output current	< 50 mA
sensing distance Tw	20 ... 200 mm	short circuit protection	yes
smallest object recognizable typ.	2 mm at 100 mm	reverse polarity protection	yes
alignment / soiled lens indicator	flashing output indicator	communication interface	
power on indication	LED green	baud rate	230,4 kBaud (COM 3)
output indicator	LED yellow	adjustable parameters	switching point time filters LED status indicators output logic counter deactivate the sensor element Find Me function Teach-in mode
sensing distance adjustment	Teach-in and IO-Link	IO-Link port type	Class A
wave length	644 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°	additional data	signal strength excess gain operating cycles device temperature
electrical data		cycle time	≥ 0,6 ms
response time / release time	< 0,25 ms		
jitter	< 0,06 ms		
voltage supply range +Vs	10 ... 30 VDC		
current consumption max. (no load)	40 mA (@ 10 VDC)		
current consumption typ.	16 mA (@ 24 VDC)		
voltage drop Vd	< 2 VDC		
output function	light / dark operate		

Technical data

mechanical data

width / diameter	8 mm
height / length	25,1 mm
depth	15,8 mm
type	rectangular
mechanical mounting	sleeve smooth (stainless steel)
housing material	plastic (ASA, PMMA)

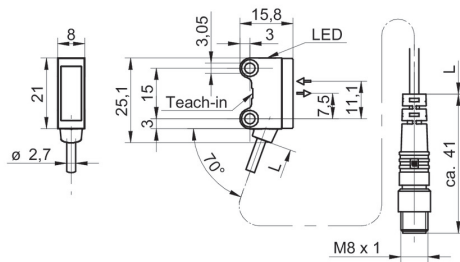
mechanical data

front (optics)	PMMA
connection types	flylead connector M8 4 pin, L=200 mm
cable characteristics	PVC / PVC 4 x 0,08 mm ²

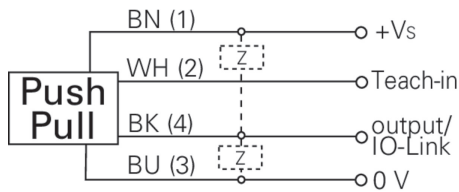
ambient conditions

operating temperature	-25 ... +50 °C
protection class	IP 67

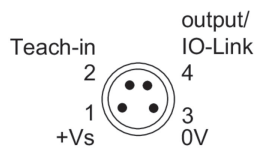
dimension drawing



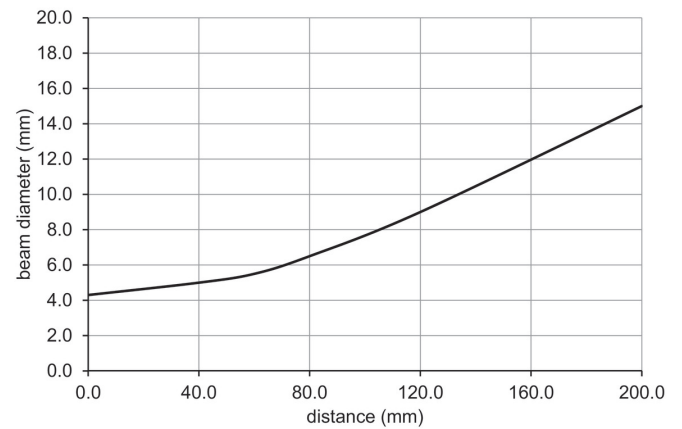
connection diagram



pin assignment



beam characteristic (typically)



relative receiving signal

