

overview

- SmartReflect - Safe barrier principle without reflector
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- Long-term stable detection of transparent objects thanks to compensation of environmental influences
- 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	light barrier	output current	< 50 mA
version	transparency object detection	short circuit protection	yes
light source	pulsed PinPoint LED	reverse polarity protection	yes
background position Sde	15 ... 180 mm	communication interface	
scanning range Sa	90% ... 85% Sde	baud rate	230,4 kBaud (COM 3)
minimal signal attenuation	5 %	adjustable parameters	switching point switching hysteresis time filters LED status indicators output logic counter operation mode deactivate the sensor element Find Me function Teach-in mode background tracking
alignment / soiled lens indicator	flashing output indicator	IO-Link port type	Class A
power on indication	LED green	process data length	32 Bit
output indicator	LED yellow	process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
sensing distance adjustment	Teach-in and IO-Link	interface	IO-Link V1.1
wave length	644 nm	additional data	signal attenuation excess gain operating cycles device temperature
suppression of reciprocal influence	yes		
beam type	point		
alignment optical axis	< 1,5°		
electrical data			
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		
output circuit	push-pull		

Technical data

communication interface

cycle time	$\geq 0,6 \text{ ms}$
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mechanical data

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

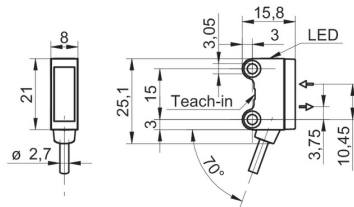
mechanical data

housing material	plastic (ASA, PMMA)
front (optics)	PMMA
connection types	cable 4 pin, 2 m
cable characteristics	PVC / PVC 4 x 0,08 mm ²

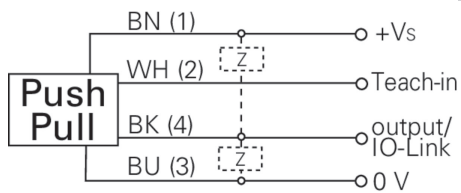
ambient conditions

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

dimension drawing



connection diagram



beam characteristic (typically)

