

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
- Quick mounting by means of M3 threaded bushes made of stainless steel



Technical data

general data		electrical data	
type	light barrier	output function	light / dark operate
version	transparency object detection	output circuit	push-pull
light source	pulsed PinPoint LED	output current	< 50 mA
background position Sde	15 ... 180 mm	short circuit protection	yes
scanning range Sa	90% ... 85% Sde	reverse polarity protection	yes
minimal signal attenuation	5 %	communication interface	
alignment / soiled lens indicator	flashing output indicator	baud rate	230,4 kBaud (COM 3)
power on indication	LED green	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
output indicator	LED yellow	IO-Link port type	Class A
sensing distance adjustment	Teach-in and IO-Link	process data length	32 Bit
wave length	644 nm	process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
suppression of reciprocal influence	yes	interface	IO-Link V1.1
beam type	point		
alignment optical axis	< 1,5°		
electrical data			
response time / release time	< 0,25 ms (High Speed Mode) 0		
jitter	< 0,06 ms (High Speed Mode)		
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		

Technical data

communication interface

additional data	signal attenuation excess gain operating cycles device temperature
cycle time	≥ 0,6 ms

mechanical data

width / diameter	8 mm
height / length	25,1 mm
depth	15,8 mm
type	rectangular

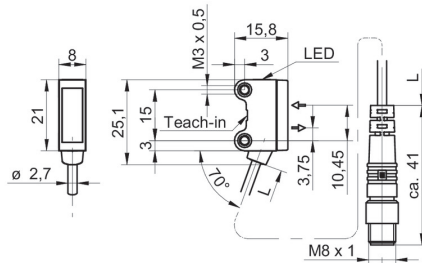
mechanical data

mechanical mounting	threaded sleeves M3 (stainless steel)
housing material	plastic (ASA, PMMA)
front (optics)	PMMA
connection types	flylead connector M8 4 pin, L=200 mm
cable characteristics	PVC / PVC 4 x 0,08 mm ²

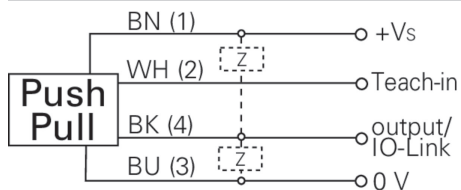
ambient conditions

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

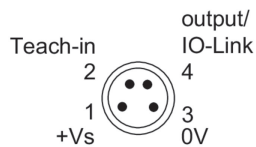
dimension drawing



connection diagram



pin assignment



beam characteristic (typically)

