

overview

- Extended functional reserve capacities for maximum reliability
- 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

type	retro-reflective sensor
version	transparency object detection single lens optics
light source	pulsed PinPoint LED
actual range Sb	0,8 m
nominal range Sn	1 m
polarization filter	yes
minimal signal attenuation	5 %
alignment / soiled lens indicator	flashing output indicator
output indicator	LED yellow
power on indication	LED green
sensitivity adjustment	Teach-in and IO-Link
wave length	644 nm
suppression of reciprocal influence	yes
alignment optical axis	< 1,5°

electrical data

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

electrical data

output function	light / dark operate
output circuit	push-pull
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

Technical data

communication interface

cycle time $\geq 0,6$ ms

mechanical data

width / diameter 8 mm
height / length 25,1 mm
depth 15,8 mm
type rectangular
mechanical mounting threaded sleeves M3 (stainless steel)

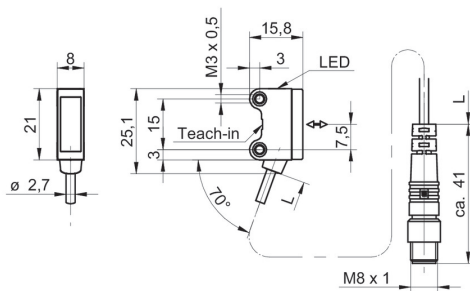
mechanical data

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 mm²

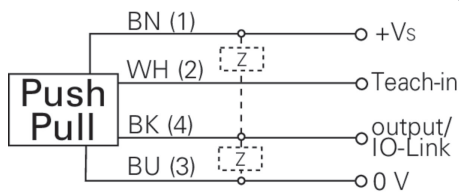
ambient conditions

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

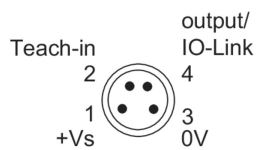
dimension drawing



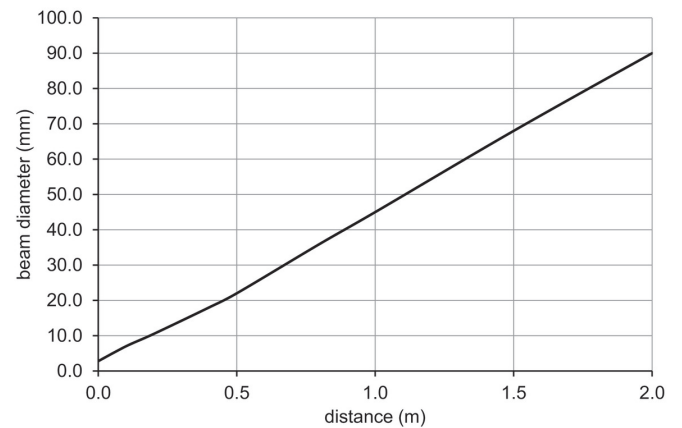
connection diagram



pin assignment



beam characteristic (typically)



excess gain curve

