

#### 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
- Robust housing with stainless steel spacer sleeves



#### 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 sleeve smooth (stainless steel)

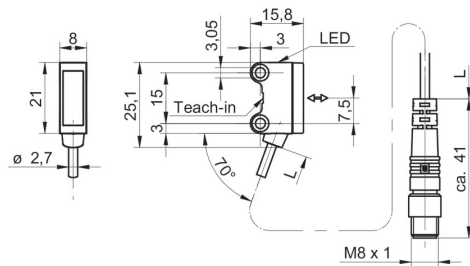
#### mechanical data

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 mm<sup>2</sup>

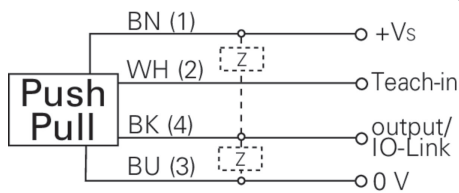
#### ambient conditions

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

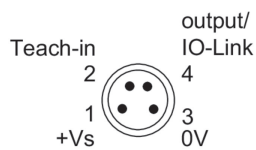
### dimension drawing



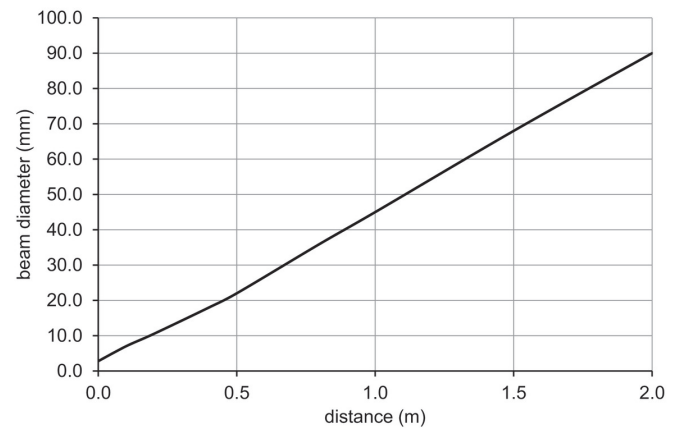
### connection diagram



### pin assignment



### beam characteristic (typically)



### excess gain curve

