

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



Picture similar



Technical data

General data		Electrical data	
Type	Light barrier	Voltage drop Vd	< 2 VDC
Version	Transparency object detection	Output function	Light / dark operate
Light source	Pulsed PinPoint LED	Output circuit	Push-pull
Background position Sde	15 ... 180 mm	Output current	< 50 mA
Scanning range Sa	90% ... 85% Sde	Short circuit protection	Yes
Minimal signal attenuation	5 %	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 Switching hysteresis Time filters LED status indicators Output logic Counter Operation mode Deactivate the sensor element Find Me function Teach-in mode Background tracking
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°		
Electrical data			
Response time / release time	< 0,25 ms (High Speed Mode)		
Jitter	< 0,1 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)		

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change. 2021-05-06

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SmartReflect Light barriers - miniature

Article number: 11223790

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

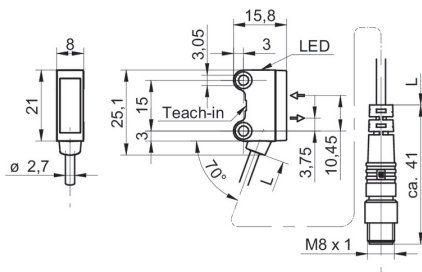
Mechanical data

Mechanical mounting	Sleeve smooth (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

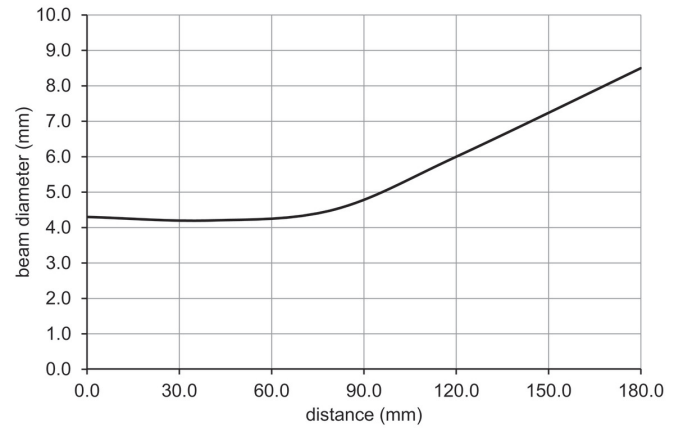
Ambient conditions

Protection class	IP 67
Operating temperature	-25 ... +50 °C

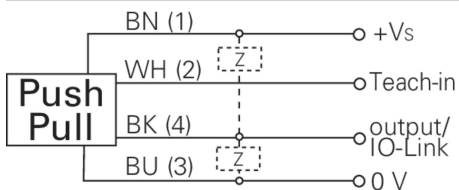
Dimension drawing



Beam characteristic (typically)



Connection diagram



Pin assignment

