

## Overview

- Most secure object detection due to the barrier principle
- Parallel laser beam for uniform detection over the measuring range
- Deactivation of the transmitter diode via test input or IO-Link
- Robust housing with stainless steel spacer sleeves



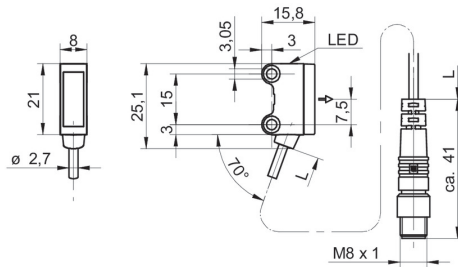
Picture similar



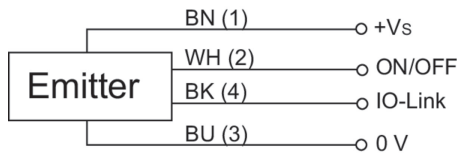
## Technical data

General data		Communication interface	
Type	Through beam sensor	Baud rate	230,4 kBaud (COM 3)
Emitter / receiver	Emitter	IO-Link port type	Class A
Light source	Pulsed red laser diode	Process data length	8 Bit
Actual range Sb	5 m	Process data structure	Bit 3 = alarm
Nominal range Sn	6 m	Interface	IO-Link V1.1
Power on indication	LED green	Additional data	Device temperature
Laser class	1	Cycle time	≥ 0,6 ms
Distance to focus	Parallel beam	Mechanical data	
Wave length	680 nm	Width / diameter	8 mm
Alignment optical axis	< 1,5°	Height / length	25,1 mm
Electrical data		Depth	15,8 mm
Voltage supply range +Vs	10 ... 30 VDC	Type	Rectangular
Current consumption max. (no load)	20 mA (@ 10 VDC)	Mechanical mounting	Sleeve smooth (stainless steel)
Current consumption typ.	10 mA (@ 24 VDC)	Housing material	Plastic (ASA, PMMA)
Output function	By IO-Link only	Front (optics)	PMMA
Output circuit	Push-pull	Connection types	Flylead connector M8 4 pin, L=200 mm
Short circuit protection	Yes	Cable characteristics	PVC / PVC 4 x 0,08 mm <sup>2</sup>
Reverse polarity protection	Yes	Ambient conditions	
		Operating temperature	-20 ... +50 °C
		Protection class	IP 67

#### Dimension drawing



#### Connection diagram

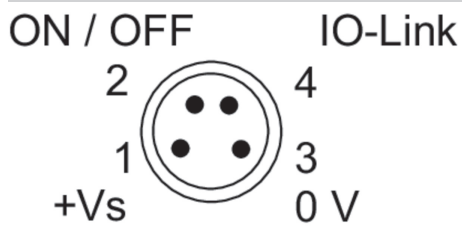


#### Laser warning

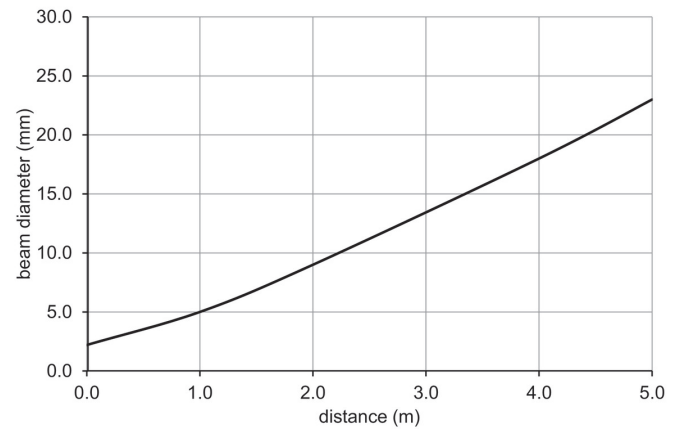
**CLASS 1 LASER  
PRODUCT**

IEC 60825-1/2014  
Complies with 21 CFR 1040.10 and  
1040.11 except for conformance with  
IEC 60825-1 Ed. 3., as described in  
Laser Notice No. 56, dated May 8, 2019

#### Pin assignment



#### Beam characteristic (typically)



#### Excess gain curve

