

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



Picture similar



Technical data

General data

Type	Through beam sensor
Emitter / receiver	Emitter
Light source	Pulsed red laser diode
Actual range Sb	5 m
Nominal range Sn	6 m
Power on indication	LED green
Laser class	1
Distance to focus	Parallel beam
Wave length	680 nm
Alignment optical axis	< 1,5°

Electrical data

Voltage supply range +Vs	10 ... 30 VDC
Current consumption max. (no load)	20 mA (@ 10 VDC)
Current consumption typ.	10 mA (@ 24 VDC)
Output function	By IO-Link only
Output circuit	Push-pull
Short circuit protection	Yes
Reverse polarity protection	Yes

Communication interface

Baud rate	230,4 kBaud (COM 3)
IO-Link port type	Class A
Process data length	8 Bit
Process data structure	Bit 3 = alarm
Interface	IO-Link V1.1
Additional data	Device temperature
Cycle time	≥ 0.6 ms

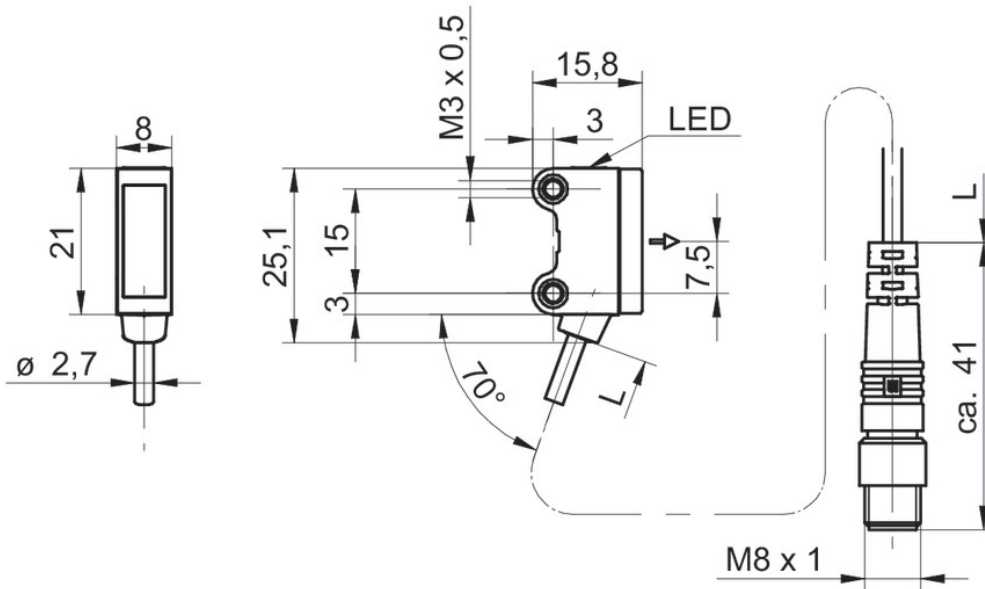
Mechanical data

Width / diameter	8 mm
Height / length	25.1 mm
Depth	15.8 mm
Design	Rectangular
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

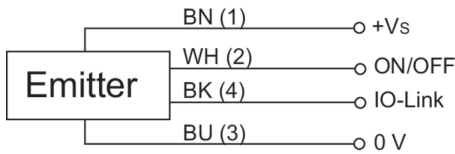
Ambient conditions

Operating temperature	-20 ... +50 °C
Protection class	IP 67

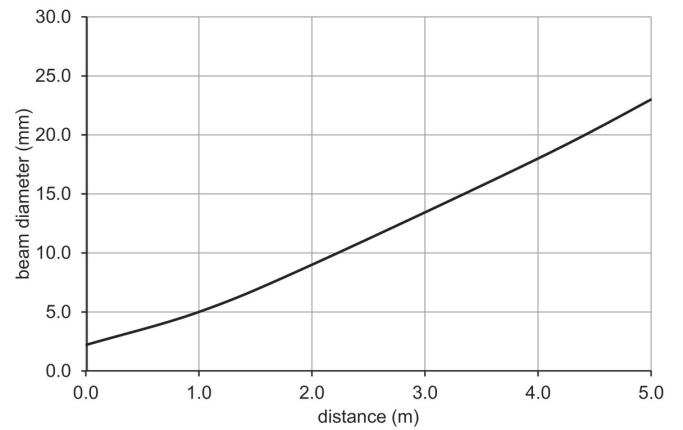
Technical drawings



Connection diagram



Beam characteristic (typically)

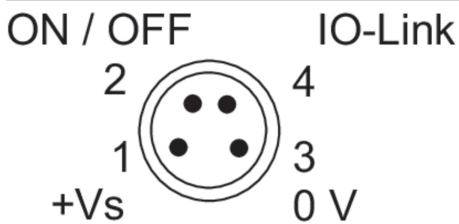


Laser warning

**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



Excess gain curve

