

overview

- Most secure object detection due to the barrier principle
- 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	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

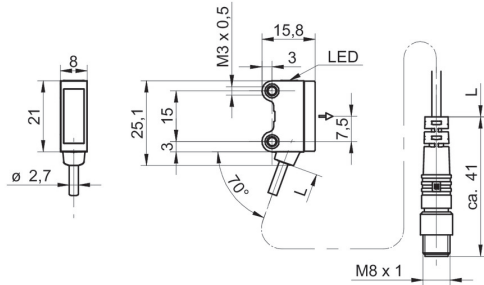
mechanical data

width / diameter	8 mm
height / length	25,1 mm
depth	15,8 mm
type	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 mm²

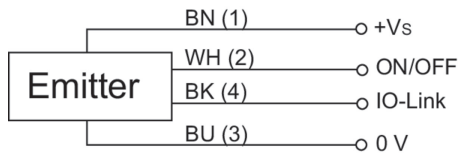
ambient conditions

operating temperature	-20 ... +50 °C
protection class	IP 67

dimension drawing



connection diagram



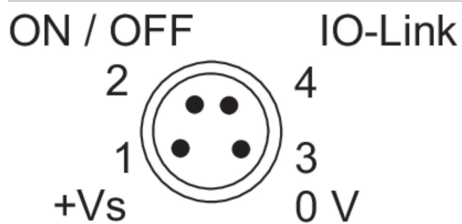
laser warning

**CLASS 1 LASER
PRODUCT**

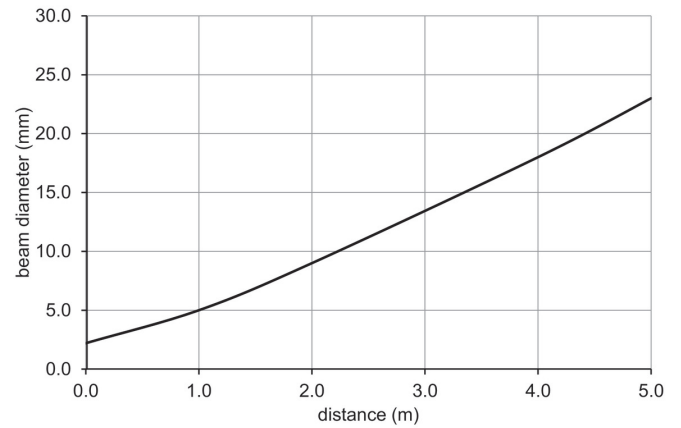
IEC 60825-1/2014

Complies with 21 CFR 1040.10 and 1040.11
except for deviations pursuant to laser
notice No. 50, dated June 24, 2007

pin assignment



beam characteristic (typically)



excess gain curve

