

overview

- Reliable intensity-based object detection
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Robust housing with stainless steel spacer sleeves



Technical data

general data

type	intensity difference
light source	pulsed red LED
sensing distance Tw	20 ... 200 mm
smallest object recognizable typ.	2 mm at 100 mm
alignment / soiled lens indicator	flashing output indicator
power on indication	LED green
output indicator	LED yellow
sensing distance adjustment	qTeach
wave length	644 nm
suppression of reciprocal influence	yes
beam type	point
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)

electrical data

current consumption typ.	16 mA (@ 24 VDC)
voltage drop Vd	< 2 VDC
output function	light / dark operate
output circuit	NPN complementary
output current	< 50 mA
short circuit protection	yes
reverse polarity protection	yes

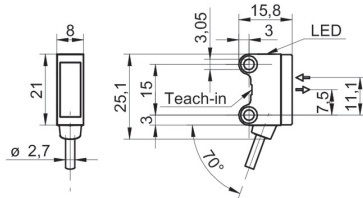
mechanical data

width / diameter	8 mm
height / length	25,1 mm
depth	15,8 mm
type	rectangular
mechanical mounting	sleeve smooth (stainless steel)
housing material	plastic (ASA, PMMA)
front (optics)	PMMA
connection types	cable 4 pin, 2 m
cable characteristics	PVC / PVC 4 x 0,08 mm ²

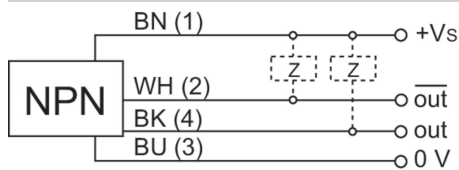
ambient conditions

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

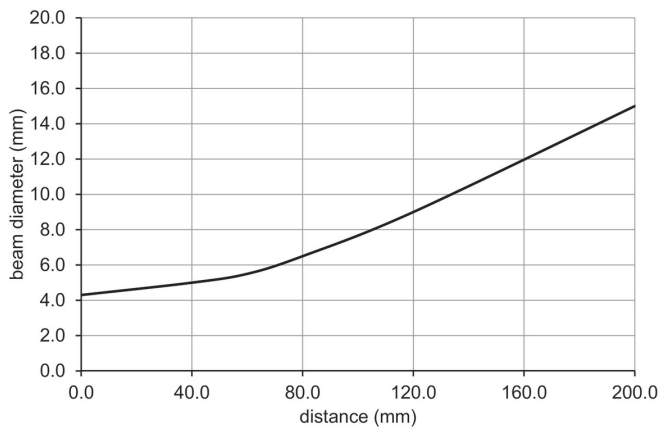
dimension drawing



connection diagram



beam characteristic (typically)



relative receiving signal

