

overview

- Most secure object detection due to the barrier principle
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Robust housing with stainless steel spacer sleeves



Technical data

general data

type	through beam sensor
emitter / receiver	receiver
light source	use with pulsed red laser diode
actual range Sb	5 m
nominal range Sn	6 m
smallest object recognizable typ.	3 mm (0,5 mm with aperture)
alignment / soiled lens indicator	flashing output indicator
output indicator	LED yellow
power on indication	LED green
sensitivity adjustment	qTeach
suppression of reciprocal influence	yes

electrical data

response time / release time	< 0,1 ms < 0,12 ms
jitter	< 0,03 ms < 0,05 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	20 mA (@ 10 VDC)

electrical data

current consumption typ.	10 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

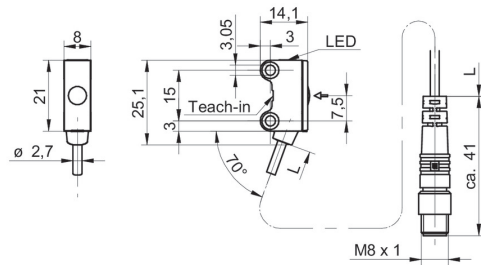
mechanical data

width / diameter	8 mm
height / length	25,1 mm
depth	14,1 mm
type	rectangular
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

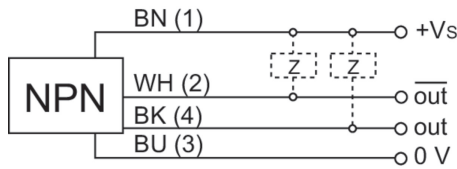
ambient conditions

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

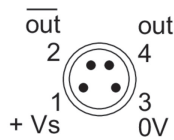
dimension drawing



connection diagram



pin assignment



excess gain curve

