

overview

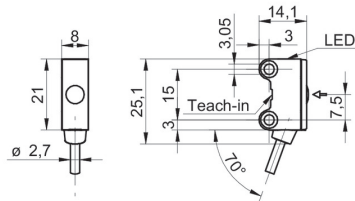
- Most secure object detection due to the barrier principle
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Robust housing with stainless steel spacer sleeves



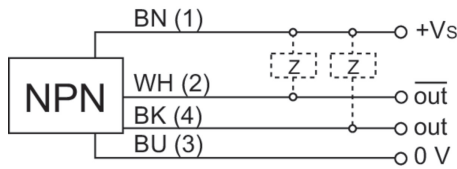
Technical data

general data		electrical data	
type	through beam sensor	current consumption typ.	10 mA (@ 24 VDC)
emitter / receiver	receiver	voltage drop Vd	< 2 VDC
light source	use with pulsed red laser diode	output function	light / dark operate
actual range Sb	5 m	output circuit	NPN complementary
nominal range Sn	6 m	output current	< 50 mA
smallest object recognizable typ.	3 mm (0,5 mm with aperture)	short circuit protection	yes
alignment / soiled lens indicator	flashing output indicator	reverse polarity protection	yes
output indicator	LED yellow	mechanical data	
power on indication	LED green	width / diameter	8 mm
sensitivity adjustment	qTeach	height / length	25,1 mm
suppression of reciprocal influence	yes	depth	14,1 mm
electrical data		type	rectangular
response time / release time	< 0,1 ms < 0,12 ms	mechanical mounting	sleeve smooth (stainless steel)
jitter	< 0,03 ms < 0,05 ms	housing material	plastic (ASA, PMMA)
voltage supply range +Vs	10 ... 30 VDC	front (optics)	PMMA
current consumption max. (no load)	20 mA (@ 10 VDC)	connection types	cable 4 pin, 2 m
		cable characteristics	PVC / PVC 4 x 0,08 mm²
		ambient conditions	
		operating temperature	-25 ... +50 °C
		protection class	IP 67

dimension drawing



connection diagram



excess gain curve

