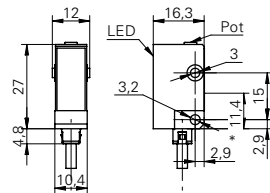


Diffuse sensors with background suppression

OHDK 10N5101

dimension drawing



* emitter axis

general data

type	background suppression
light source	pulsed red laser diode
sensing distance Tw	22 ... 130 mm
sensing range Tb (at Tw max.)	3 ... 130 mm
sensing range Tb (at Tw min.)	3 ... 22 mm
repeat accuracy	< 0,2 mm at laser focus
power on indication	LED green
light indicator	LED yellow
sensing distance adjustment	mechanical, 5 turn
laser class	2
distance to focus	40 mm
wave length	650 nm
suppression of reciprocal influence	yes

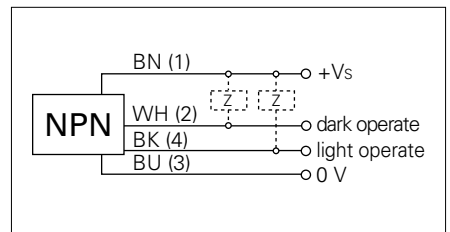
photo



electrical data

response time / release time	< 0,25 ms
voltage supply range +Vs	11 ... 30 VDC
current consumption max. (no load)	30 mA
current consumption typ.	25 mA
voltage drop Vd	< 1,8 VDC
output function	light / dark operate
output circuit	NPN
output current	< 70 mA
short circuit protection	yes
reverse polarity protection	yes, supply only

connection diagram



laser warning

LASER RADIATION
DO NOT STARE INTO BEAM
 Wavelength: 640...670nm
 IEC 60825-1, Ed. 3, 2014
CLASS 2 LASER PRODUCT

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

mechanical data

width / diameter	10,4 mm
height / length	27 mm
depth	16,3 mm
type	rectangular
housing material	plastic (ASA)
front (optics)	PMMA
connection types	cable 4 pin, 2 m



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ambient conditions

operating temperature	-10 ... +50 °C
protection class	IP 65