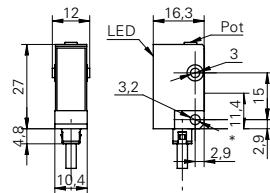


# Diffuse sensors with background suppression

## OHDK 10P5101

### dimension drawing



\* emitter axis

### general data

type	background suppression
light source	pulsed red laser diode
sensing distance $T_w$	22 ... 130 mm
sensing range $T_b$ (at $T_w$ max.)	3 ... 130 mm
sensing range $T_b$ (at $T_w$ 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

### 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 $V_d$	< 1,8 VDC
output function	light / dark operate
output circuit	PNP
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes, supply only

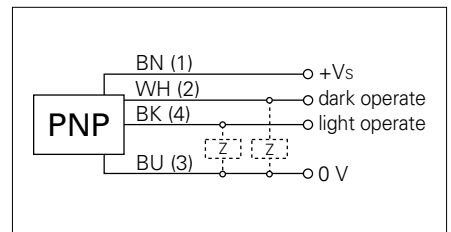
### mechanical data

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


### photo



### connection diagram



### laser warning



**LASER RADIATION**  
**DO NOT STARE INTO BEAM**  
Wavelength: 620 ... 680nm  
Max. av. Output: < 1mW  
IEC 60825-1, Ed. 2, 2007  
**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



## Diffuse sensors with background suppression

**OHDK 10P5101****ambient conditions**

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