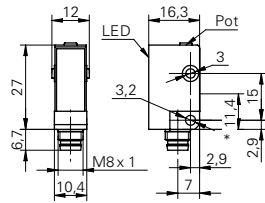


# Diffuse sensors with background suppression

# OHDK 10 (Laser line beam)

**sample drawing**



\* emitter axis

**general data**

type	background suppression
version	line beam
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	1
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
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	connector M8 4 pin

**ambient conditions**

operating temperature	-10 ... +50 °C
protection class	IP 67

**sample picture**



**laser warning**

**CLASS 1 LASER PRODUCT**

IEC 60825-1/2014  
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 10 (Laser line beam)

order reference	output circuit	output current
OHDK 10N5150/S35A	NPN	< 70 mA
OHDK 10P5150/S35A	PNP	< 100 mA