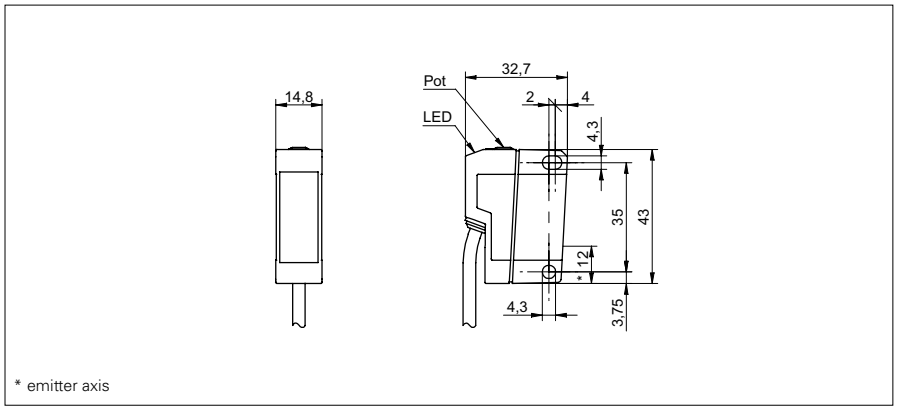
Diffuse sensors with background suppression

OHDK 14P5101

dimension drawing



* emitter axis

general data

type	background suppression
light source	pulsed red laser diode
sensing distance Tw	20 ... 350 mm
sensing range Tb (at Tw max.)	20 ... 350 mm
sensing range Tb (at Tw min.)	5 ... 20 mm
repeat accuracy	< 0,2 mm at laser focus
power on indication	LED green
light indicator	LED yellow
sensing distance adjustment	mechanical, 9 turn
laser class	2
distance to focus	115 mm
wave length	650 nm

electrical data

response time / release time	< 0,5 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	35 mA
current consumption typ.	25 mA
voltage drop Vd	< 2,2 VDC
output function	light / dark operate
output circuit	PNP
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

mechanical data

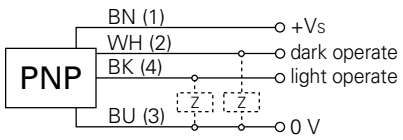
width / diameter	14,8 mm
height / length	43 mm
depth	31 mm
type	rectangular
housing material	plastic (ASA, MABS)
front (optics)	PMMA
connection types	cable 4 pin, 2 m

ambient conditions

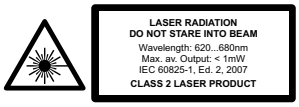
operating temperature	-10 ... +50 °C
protection class	IP 67

photo

connection diagram



laser warning



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