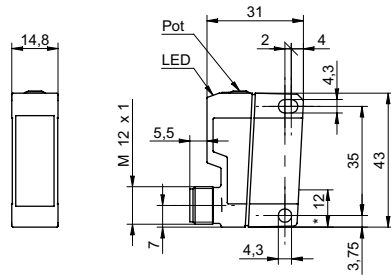


## Diffuse sensors with background suppression

## OHDK 14N5101/S14

### dimension drawing



\* emitter axis

### general data

type	background suppression
light source	pulsed red laser diode
sensing distance $T_w$	20 ... 350 mm
sensing range $T_b$ (at $T_w$ max.)	20 ... 350 mm
sensing range $T_b$ (at $T_w$ 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 $V_d$	< 2,2 VDC
output function	light / dark operate
output circuit	NPN
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	connector M12 4 pin

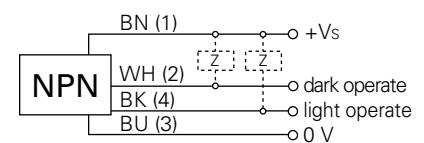
### ambient conditions

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

### photo



### connection diagram



### laser warning

