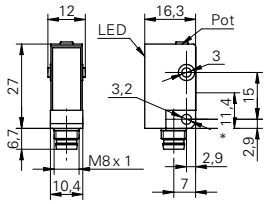
Diffuse sensors with background suppression

OHDK 10P5101/S35A

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

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	PNP
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes, supply only

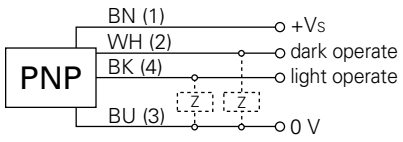
mechanical data

width / diameter	10,4 mm
height / length	27 mm
depth	16,3 mm
type	rectangular
housing material	plastic (ASA)
front (optics)	PMMA
connection types	connector M8 4 pin

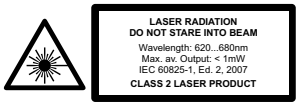
photo



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

Diffuse sensors with background suppression

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