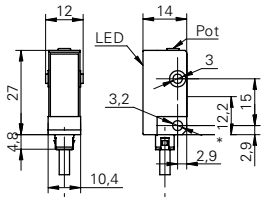
Diffuse sensors with background suppression

FHDK 10N5101

dimension drawing



* emitter axis

general data

type	background suppression
light source	pulsed red LED
sensing distance Tw	20 ... 120 mm
sensing range Tb (at Tw max.)	5 ... 120 mm
sensing range Tb (at Tw min.)	5 ... 20 mm
alignment / soiled lens indicator	flashing light indicator
light indicator	LED yellow
sensing distance adjustment	mechanical, 5 turn
distance to focus	35 ... 45 mm
wave length	660 nm
beam diameter	4 mm at focus
suppression of reciprocal influence	yes

electrical data

response time / release time	< 1 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	30 mA
current consumption typ.	20 mA
voltage drop Vd	< 1,8 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	10,4 mm
height / length	27 mm
depth	14 mm
type	rectangular
housing material	plastic (ASA)
front (optics)	PMMA
connection types	cable 4 pin, 2 m

ambient conditions

operating temperature	-25 ... +65 °C
protection class	IP 65

photo



connection diagram

