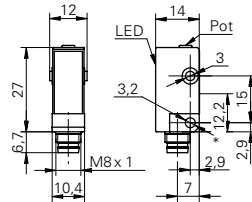


Diffuse sensors with background suppression

FHDK 10 (Tw adjustable, point source LED)

sample drawing



* emitter axis

general data

type	background suppression
version	point source LED
light source	pulsed point source LED
sensing distance Tw	25 ... 120 mm
sensing range Tb (at Tw max.)	5 ... 120 mm
sensing range Tb (at Tw min.)	5 ... 25 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	2 mm at focus
suppression of reciprocal influence	yes

sample picture



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 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

ambient conditions

operating temperature	-25 ... +65 °C
-----------------------	----------------

**Diffuse sensors with
background suppression****FHDK 10 (Tw adjustable, point source LED)**

order reference	connection types	output circuit	protection class
FHDK 10N5110	cable 4 pin, 2 m	NPN	IP 65
FHDK 10N5110/S35A	connector M8 4 pin	NPN	IP 67
FHDK 10P5110	cable 4 pin, 2 m	PNP	IP 65
FHDK 10P5110/S35A	connector M8 4 pin	PNP	IP 67