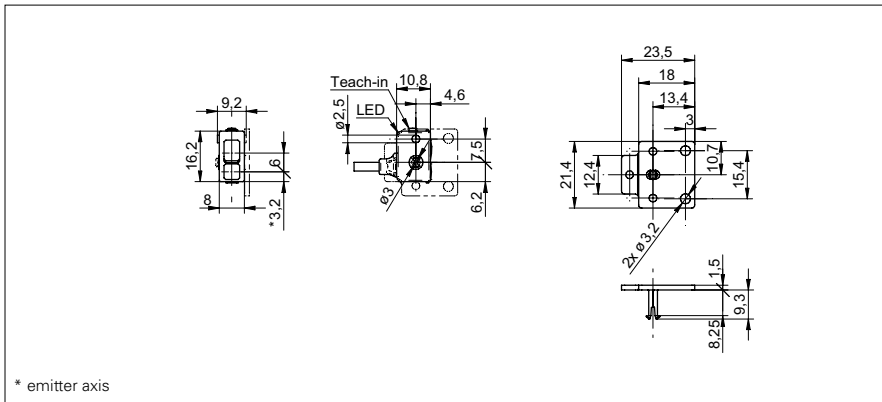


# Diffuse sensors with background suppression

**FHCK 07**

**sample drawing**



**general data**

type	background suppression
light source	pulsed red LED
sensing distance $T_w$	10 ... 60 mm
sensing range $T_b$ (at $T_w$ max.)	2 ... 60 mm
sensing range $T_b$ (at $T_w$ min.)	5 ... 10 mm
alignment / soiled lens indicator	flashing light indicator
light indicator	LED green
output indicator	LED yellow
sensing distance adjustment	Teach-in
wave length	660 nm
suppression of reciprocal influence	yes

**electrical data**

response time / release time	< 0,5 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	25 mA
current consumption typ.	20 mA
voltage drop $V_d$	< 1,8 VDC
output function	light / dark operate
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

**mechanical data**

width / diameter	8 mm
height / length	16,2 mm
depth	10,8 mm
type	rectangular
housing material	plastic (PMMA, MABS, PA)
front (optics)	PMMA

**ambient conditions**

operating temperature	-20 ... +50 °C
protection class	IP 65

**sample picture**



## Diffuse sensors with background suppression

## FHCK 07

order reference	connection types	output circuit
<b>FHCK 07N6901</b>	cable rear side, 2 m	NPN
<b>FHCK 07N6901/KS35A</b>	flylead connector M8 4 pin, L=200 mm	NPN
<b>FHCK 07P6901</b>	cable rear side, 2 m	PNP
<b>FHCK 07P6901/KS35A</b>	flylead connector M8 4 pin, L=200 mm	PNP