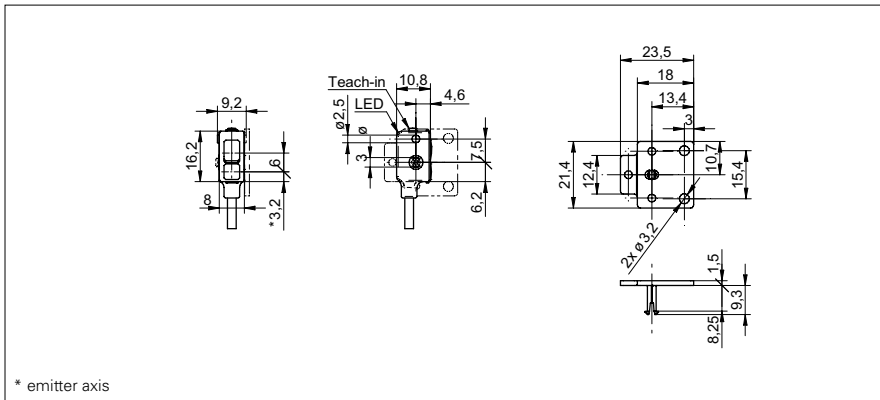


## Diffuse sensors with background suppression

FHDK 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

## FHDK 07

order reference	connection types	output circuit
FHDK 07N6901	cable bottom side, 2 m	NPN
FHDK 07N6901/KS35A	flylead connector M8 4 pin, L=200 mm	NPN
FHDK 07P6901	cable bottom side, 2 m	PNP
FHDK 07P6901/KS35A	flylead connector M8 4 pin, L=200 mm	PNP