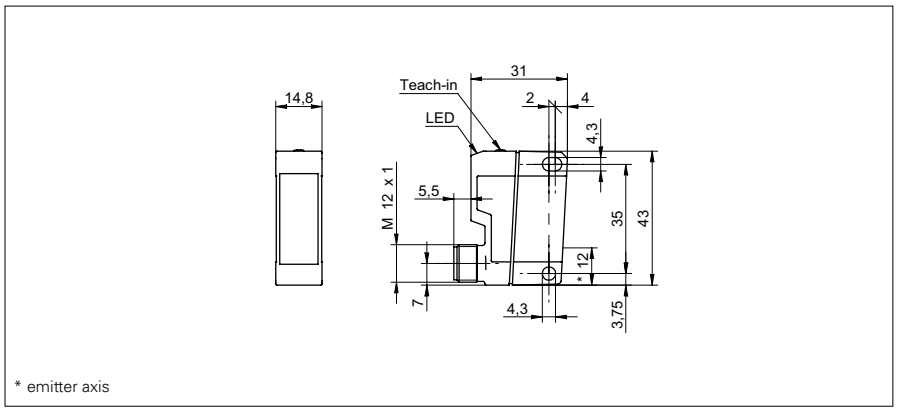
Diffuse sensors with background suppression

FHDK 14N6901/S14

dimension drawing



* emitter axis

general data

type	background suppression
light source	pulsed red LED
sensing distance Tw	40 ... 200 mm
sensing range Tb (at Tw max.)	20 ... 200 mm
sensing range Tb (at Tw min.)	12 ... 40 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)	40 mA
current consumption typ.	35 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

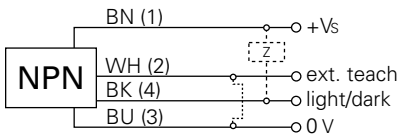
width / diameter	14,8 mm
height / length	43 mm
depth	31 mm
type	rectangular
housing material	plastic (ASA, MABS)
front (optics)	PMMA
connection types	connector M12 4 pin

ambient conditions

operating temperature	-25 ... +65 °C
protection class	IP 67

photo

connection diagram



- sensitivity adjustable: via Teach-in button or Teach-in wire input