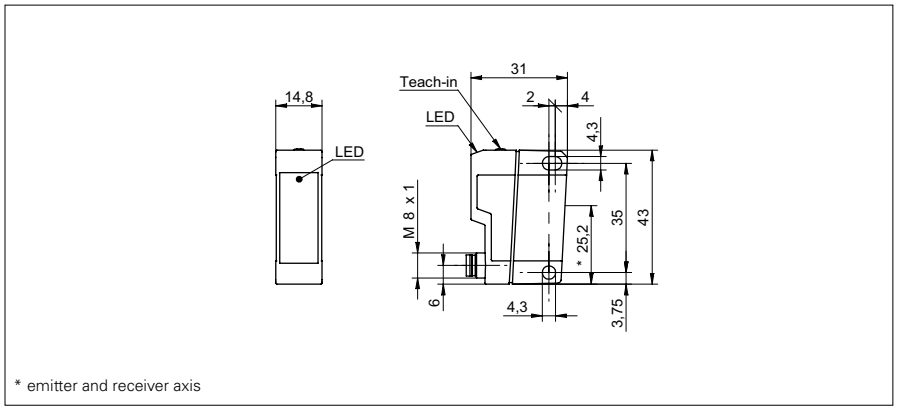
Retro-reflective sensors OPDK 14 (Laser, standard version)

sample drawing



* emitter and receiver axis

general data

type	retro-reflective laser sensor
version	single lens optics
light source	pulsed red laser diode
actual range Sb	10 m
nominal range Sn	11 m
repeat accuracy	< 0,1 mm at laser focus
polarization filter	yes
alignment / soiled lens indicator	flashing light indicator
light indicator	LED yellow
power on indication	LED green
sensitivity adjustment	Teach-in
laser class	1
distance to focus	400 mm
wave length	650 nm

electrical data

response time / release time	< 0,25 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	35 mA
current consumption typ.	25 mA
voltage drop Vd	< 2,2 VDC
output function	light / dark operate
output circuit	PNP
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

ambient conditions

operating temperature	-10 ... +50 °C
protection class	IP 67

sample picture

laser warning

CLASS 1 LASER PRODUCT

IEC 60825-1/2014
Complies with 21 CFR 1040.10 and 1040.11
except for deviations pursuant to laser
notice No. 50, dated June 24, 2007

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order reference	connection types
OPDK 14P5901	cable 4 pin, 2 m
OPDK 14P5901/S14	connector M12 4 pin
OPDK 14P5901/S35A	connector M8 4 pin