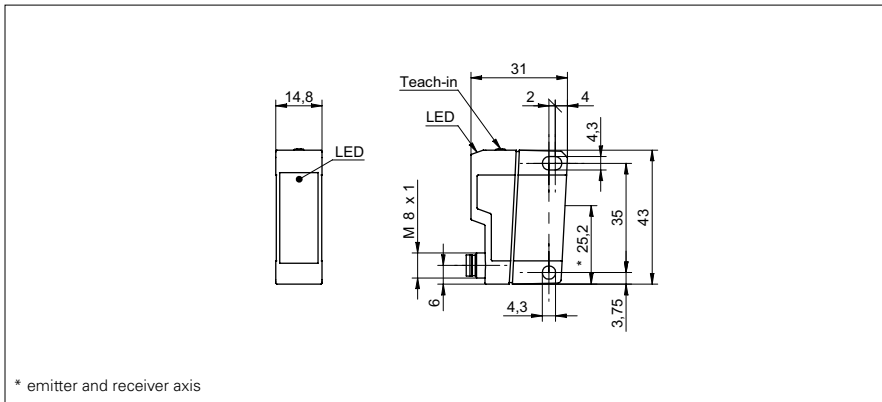


Retro-reflective sensors

OPDK 14 (Laser, for transparent Objects)

sample drawing



general data

type	retro-reflective laser sensor
version	for transparent objects single lens optics
light source	pulsed red laser diode
actual range Sb	4,5 m
nominal range Sn	5,2 m
repeat accuracy	< 0,1 mm at laser focus
polarization filter	yes
light indicator	LED yellow
power on indication	LED green
sensitivity adjustment	Teach-in
laser class	1
distance to focus	100 mm
wave length	650 nm

sample picture



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 circuit	PNP
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

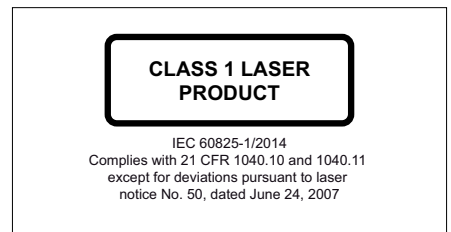
mechanical data

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

laser warning



Retro-reflective sensors
OPDK 14 (Laser, for transparent Objects)

order reference	connection types	output function	teach value stored after power-off
OPDK 14P1902	cable 4 pin, 2 m	light operate	volatile
OPDK 14P1902/S14	connector M12 4 pin	light operate	volatile
OPDK 14P1902/S35A	connector M8 4 pin	light operate	volatile
OPDK 14P1903	cable 4 pin, 2 m	light operate	non volatile
OPDK 14P1903/S14	connector M12 4 pin	light operate	non volatile
OPDK 14P1903/S35A	connector M8 4 pin	light operate	non volatile
OPDK 14P3902	cable 4 pin, 2 m	dark operate	volatile
OPDK 14P3902/S14	connector M12 4 pin	dark operate	volatile
OPDK 14P3902/S35A	connector M8 4 pin	dark operate	volatile
OPDK 14P3903	cable 4 pin, 2 m	dark operate	non volatile
OPDK 14P3903/S14	connector M12 4 pin	dark operate	non volatile
OPDK 14P3903/S35A	connector M8 4 pin	dark operate	non volatile