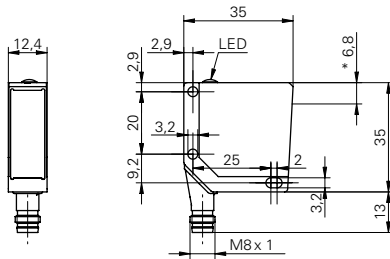


Retro-reflective sensors

OPDM 12 (Laser)

sample drawing



* emitter and receiver axis

general data

type	retro-reflective laser sensor
version	single lens optics
light source	pulsed red laser diode
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	no
laser class	2
wave length	650 nm

actual range Sb = 4,5 m

nominal range Sn	5 m
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actual range Sb = 7 m

nominal range Sn	8 m
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electrical data

voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	50 mA
current consumption typ.	40 mA
voltage drop Vd	< 1,8 VDC
output function	light / dark operate
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

mechanical data

width / diameter	12,4 mm
height / length	35 mm
depth	35 mm
type	rectangular
housing material	die-cast zinc
front (optics)	glass

ambient conditions

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

sample picture



laser warning



LASER RADIATION
DO NOT STARE INTO BEAM
 Wavelength: 620...680nm
 Max. av. Output: < 1mW
 IEC 60825-1, Ed. 2, 2007
CLASS 2 LASER PRODUCT

Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007

Retro-reflective sensors

OPDM 12 (Laser)

order reference	actual range Sb	connection types	output circuit	response time / release time	distance to focus
OPDM 12N5101/S35A	7 m	connector M8 4 pin	NPN	< 0,1 ms	400 mm
OPDM 12P5101	7 m	cable 4 pin, 2 m	PNP	< 0,1 ms	400 mm
OPDM 12P5101/S35A	7 m	connector M8 4 pin	PNP	< 0,1 ms	400 mm
OPDM 12P5102/S35A	4,5 m	connector M8 4 pin	PNP	< 0,1 ms	100 mm
OPDM 12P5103/S35A	7 m	connector M8 4 pin	PNP	< 0,1 ms	parallel beam
OPDM 12P5104/S35A	4,5 m	connector M8 4 pin	PNP	< 0,05 ms	100 mm