

Tw = 0 ... 250 mm

- rugged metal housing
- high repeatability
- very short response time



OZDM 16 Tw = 0 ... 250 mm

general data

type	intensity difference
light source	pulsed red laser diode
sensing distance Tw	0 ... 250 mm
optimum operating distance	40 ... 80 mm
detectable remission difference (on grey)	> 8 %
repeatability	< 0,1 mm at laser focus
output indicator	LED yellow
sensitivity adjustment	Pot, 14 turn
laser class	2
distance to laser focus	80 mm
wave length	675 nm

electrical data

response time / release time	< 0,05 ms
voltage supply range +Vs	12 ... 30 VDC
current consumption max.	65 mA
current consumption typ.	60 mA
voltage drop Vd	< 1,8 VDC
output current	< 200 mA
short circuit protection	yes
reverse polarity protection	yes

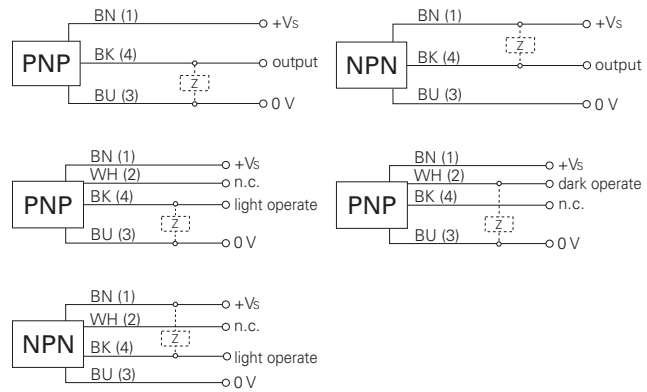
mechanical data

width / diameter	15,4 mm
height / length	50 mm
depth	50 mm
type	rectangular
housing material	die-cast zinc
front (optics)	glass

ambient conditions

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

connection diagrams



connectors

ESG 34AH0200	4 pin	2 m straight
ESW 33AH0200	4 pin	2 m angular

additional cable connectors and field wireable connectors, see accessories

accessories

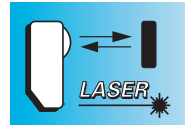
SENSOFIX mounting kit	151721
mounting bracket	113917
lens cleaning air nozzle bracket	116407

for details, see accessories section

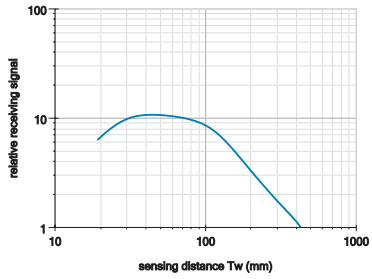
laser warning



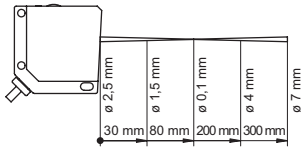
order reference	connection types	output circuit	output function
OZDM 16N1001	cable 3 pin	NPN	light operate
OZDM 16N1001/S14	connector M12, 4 pin	NPN	light operate
OZDM 16P1001	cable 3 pin	PNP	light operate
OZDM 16P1001/S14	connector M12, 4 pin	PNP	light operate
OZDM 16P3001	cable 3 pin	PNP	dark operate
OZDM 16P3001/S14	connector M12, 4 pin	PNP	dark operate



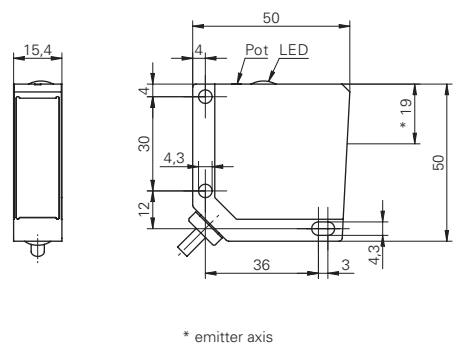
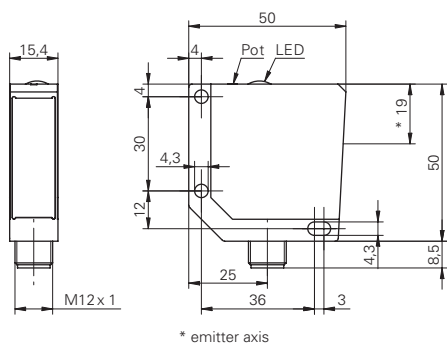
relative receiving signal

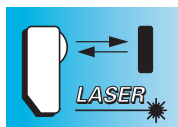


beam characteristic



dimension drawings





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output function	light operate
output circuit	PNP / analog 4 ... 20 mA
output current	< 200 mA
short circuit protection	yes
reverse polarity protection	yes

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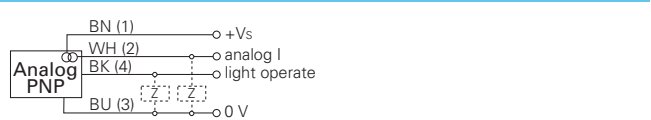
ambient conditions

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

order reference **connection types**

OZDM 16P1901	cable 4 pin
OZDM 16P1901/S14	connector M12, 4 pin

connection diagram



connectors

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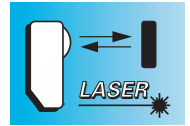
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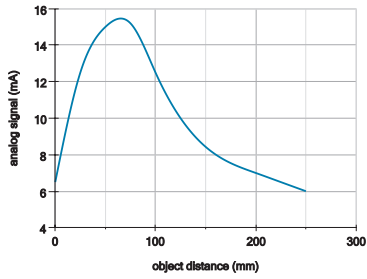
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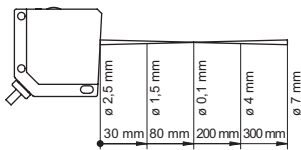




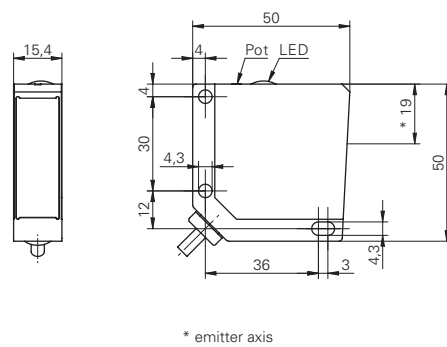
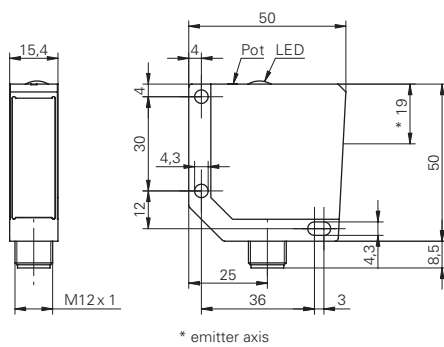
signal progression

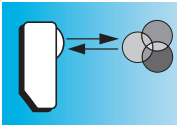


beam characteristic



dimension drawings





Tw = 0 ... 250 mm

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general data

type	diffuse contrast sensor
light source	pulsed red laser diode
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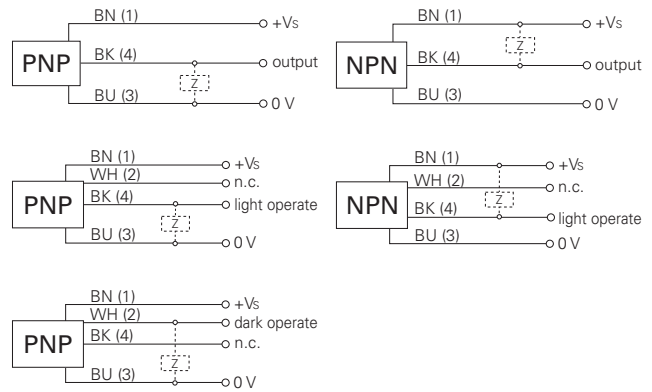
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connection diagrams



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additional cable connectors and field wireable connectors, see accessories

accessories

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mounting bracket	113917

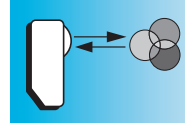
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laser warning

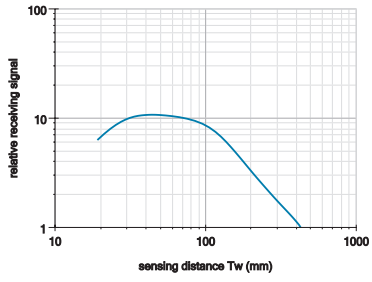


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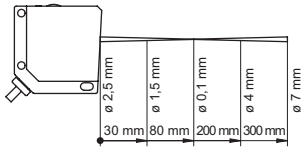
OZDM 16 Tw = 0 ... 250 mm Diffuse laser sensors for contrast detection



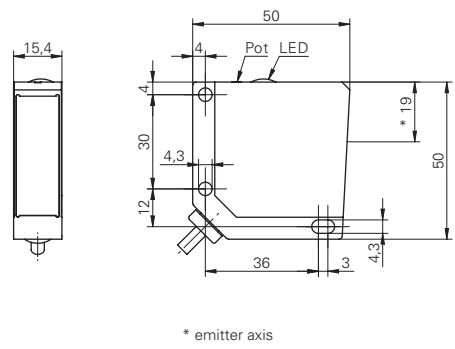
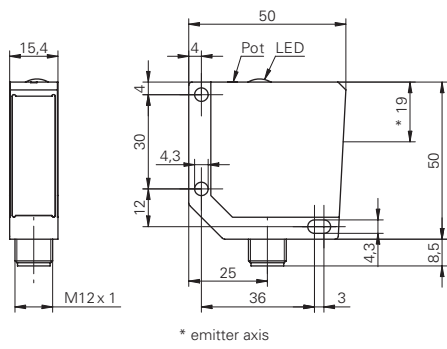
relative receiving signal



beam characteristic

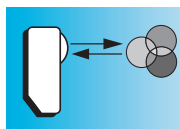


dimension drawings



OZDM 16 Tw = 0 ... 250 mm

Diffuse laser sensors for contrast detection



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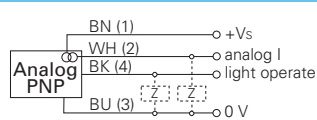
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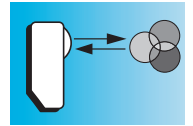
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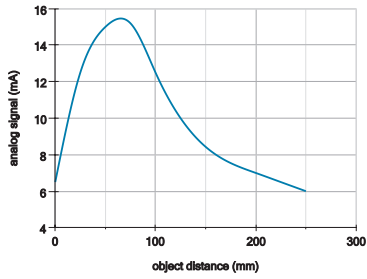
for details, see accessories section

laser warning

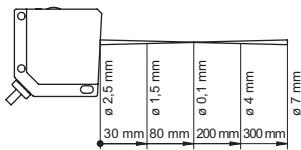




signal progression



beam characteristic



dimension drawings

