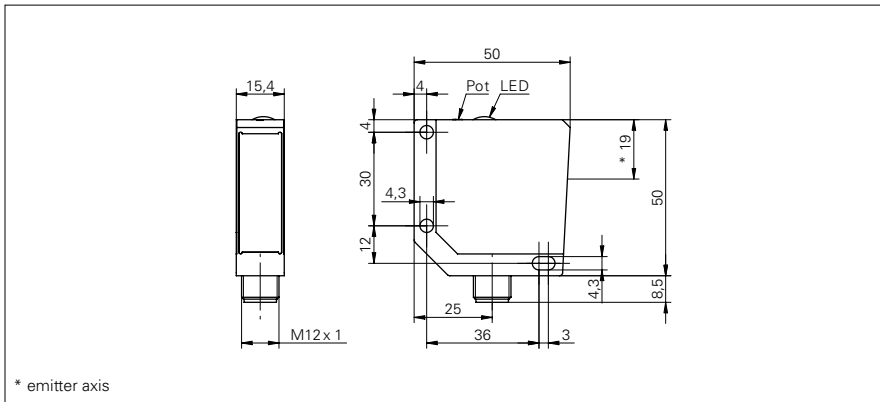


Diffuse sensors with intensity difference

OZDM 16 (Laser, switching output)

sample drawing



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 %
repeat accuracy	< 0,1 mm at laser focus
output indicator	LED yellow
sensitivity adjustment	potentiometer, 14 turn
laser class	1
distance to 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. (no load)	65 mA
current consumption typ.	60 mA
voltage drop Vd	< 2 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

sample picture



laser warning

**CLASS 1 LASER
PRODUCT**

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

Diffuse sensors with intensity difference

OZDM 16 (Laser, switching output)

order reference	connection types	output circuit	output function
OZDM 16N1001	cable 3 pin, 2 m	NPN	light operate
OZDM 16N1001/S14	connector M12 4 pin	NPN	light operate
OZDM 16P1001	cable 3 pin, 2 m	PNP	light operate
OZDM 16P1001/S14	connector M12 4 pin	PNP	light operate
OZDM 16P3001	cable 3 pin, 2 m	PNP	dark operate
OZDM 16P3001/S14	connector M12 4 pin	PNP	dark operate