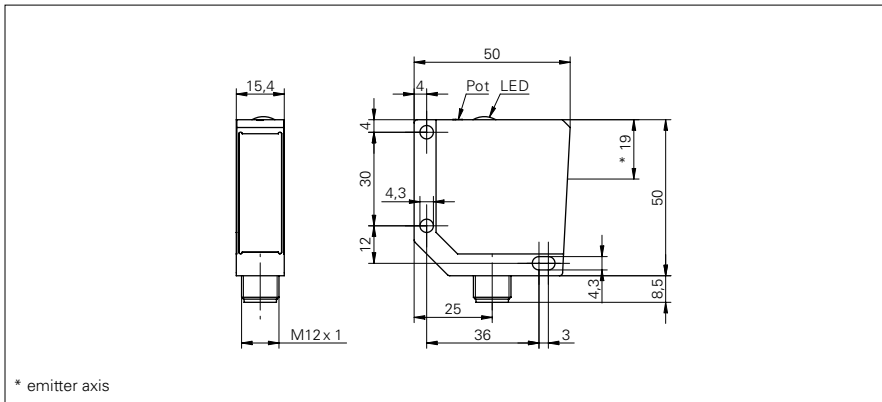


Diffuse contrast sensors

OZDM 16 (Laser, switching output)

sample drawing



general data

type	diffuse contrast sensor
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	650 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

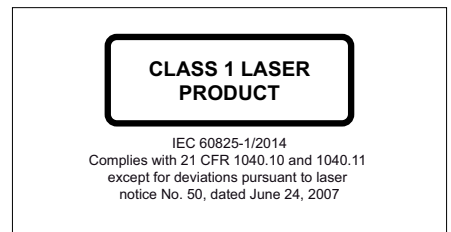
ambient conditions

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

sample picture



laser warning



Diffuse contrast sensors**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