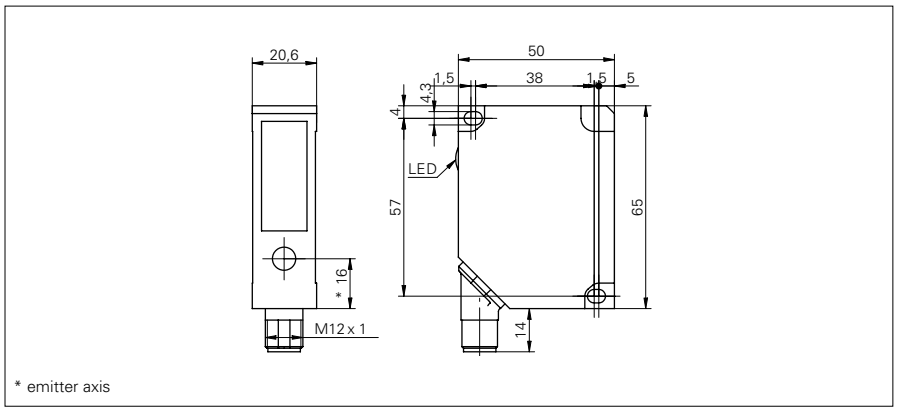
Distance sensors OADM 20 (Laser, fixed sensing range, > 250 mm)

sample drawing



general data

adjustment	no
power on indication	LED green
soiled lens indicator	LED red
light source	pulsed red laser diode
wave length	650 nm
laser class	2
measuring distance Sd = 100 ... 500 mm	
resolution	0,2 ... 0,5 mm
linearity error	± 0,8 ... ± 2 mm
measuring distance Sd = 200 ... 1000 mm	
resolution	0,6 ... 2,5 mm
linearity error	± 2,4 ... ± 10 mm

electrical data

response time / release time	< 10 ms
voltage supply range +Vs	12 ... 28 VDC
current consumption max.	100 mA
output circuit	analog
output signal	4 ... 20 mA / 0 ... 10 VDC
load resistance (analog I)	< (+Vs - 6 V) / 0,02 A
load resistance (analog U)	> 100 kOhm
output current	< 100 mA
alarm output	PNP
short circuit protection	yes
reverse polarity protection	yes, Vs to GND

mechanical data

width / diameter	20,6 mm
height / length	65 mm
depth	50 mm
type	rectangular
housing material	die-cast zinc
front (optics)	glass
connection types	connector M12 5 pin, rotatable

sample picture

laser warning

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

remarks

While switching-on the sensor, it checks if there is a current at current output BK (4). If so, the current output is activated. If not, the voltage output GY (5) is activated after 100 ms.

Distance sensors OADM 20 (Laser, fixed sensing range, > 250 mm)

ambient conditions	
operating temperature	0 ... +50 °C
protection class	IP 67

order reference	measuring distance Sd	beam type	beam width	beam height	beam diameter
OADM 20I4471/S14C	100 ... 500 mm	point	-	-	2 mm
OADM 20I4481/S14C	200 ... 1000 mm	point	-	-	2 mm
OADM 20I4571/S14C	100 ... 500 mm	line	2,5 mm	5,5 ... 18 mm	-
OADM 20I4581/S14C	200 ... 1000 mm	line	2,5 mm	8,5 ... 35 mm	-