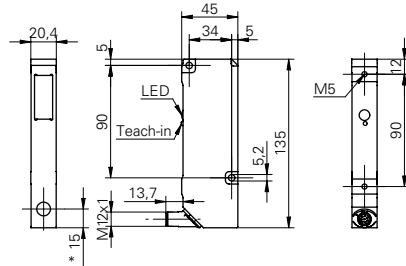


## Distance sensors

## OADM 21 (Laser)

## sample drawing



\* emitter axis

## general data

adjustment	Teach-in: button / external
Teach-in range min.	> 10 mm
power on indication	LED green
soiled lens indicator	LED red / LED red blinking
light source	pulsed red laser diode
wave length	650 nm
laser class	2

## measuring distance Sd = 100 ... 600 mm

resolution	0,01 ... 0,25 mm
linearity error	± 0,07 ... ± 1 mm

## measuring distance Sd = 200 ... 1000 mm

resolution	0,02 ... 0,5 mm
linearity error	± 0,11 ... ± 2 mm

## electrical data

response time / release time	< 4 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	20,4 mm
height / length	135 mm
depth	45 mm
type	rectangular
housing material	aluminum
front (optics)	glass
connection types	connector M12 8 pin, rotatable

## sample picture



## laser warning



## Distance sensors

## OADM 21 (Laser)

**ambient conditions**

operating temperature 0 ... +50 °C

protection class IP 67

order reference	measuring distance Sd	beam width	beam diameter	beam type	beam height
<b>OADM 21I6480/S14F</b>	100 ... 600 mm	-	2 mm	point	-
<b>OADM 21I6481/S14F</b>	200 ... 1000 mm	-	2 mm	point	-
<b>OADM 21I6580/S14F</b>	100 ... 600 mm	2 mm	-	line	4 ... 13 mm
<b>OADM 21I6581/S14F</b>	200 ... 1000 mm	2,5 mm	-	line	6 ... 20 mm