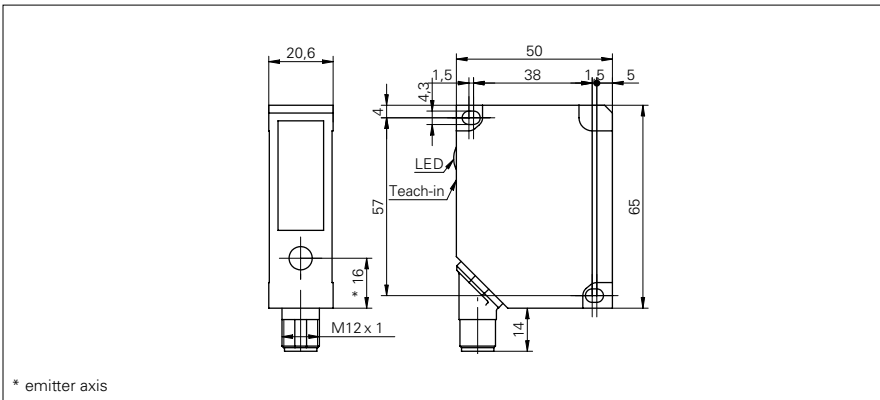


Distance sensors

OADM 20 (Laser, variable sensing range, > 300 mm)

sample drawing



general data

adjustment	Teach-in: button / external
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 $S_d = 100 \dots 600 \text{ mm}$

Teach-in range min.	> 10 mm
resolution	0,015 ... 0,67 mm
linearity error	$\pm 0,05 \dots \pm 2 \text{ mm}$

measuring distance $S_d = 200 \dots 1000 \text{ mm}$

Teach-in range min.	> 20 mm
resolution	0,12 ... 2,5 mm
linearity error	$\pm 0,48 \dots \pm 10 \text{ mm}$

electrical data

response time / release time	< 0,9 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 8 pin, rotatable

sample picture



Distance sensors

OADM 20 (Laser, variable sensing range, > 300 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 2016480/S14F	100 ... 600 mm	point	-	-	2 mm
OADM 2016481/S14F	200 ... 1000 mm	point	-	-	2 mm
OADM 2016580/S14F	100 ... 600 mm	line	2,5 mm	5,5 ... 21 mm	-
OADM 2016581/S14F	200 ... 1000 mm	line	2,5 mm	8,5 ... 35 mm	-