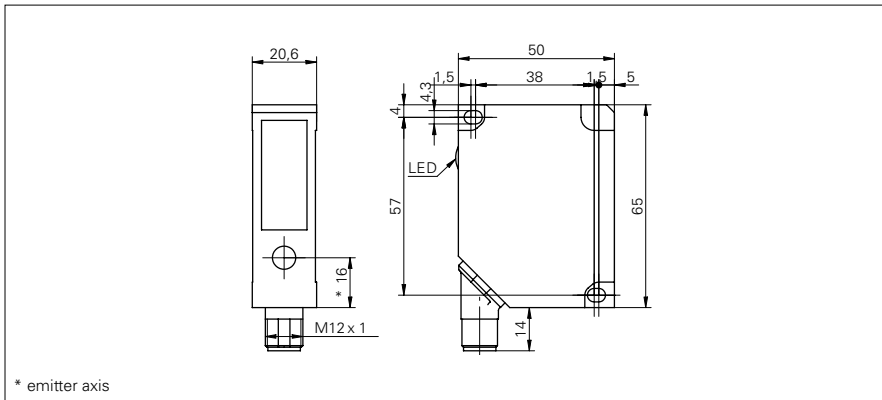


Distance sensors

OADM 20 (Laser, RS485 interface, > 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
temperature drift	< 0,04 % Sde/K

measuring distance Sd = 200 ... 1000 mm

resolution	0,6 ... 2,5 mm
linearity error	± 2,4 ... ± 10 mm
temperature drift	< 0,06 % Sde/K

electrical data

response time / release time	< 10 ms
voltage supply range +Vs	12 ... 28 VDC
current consumption max. (no load)	100 mA
output circuit	RS 485
baud rate	19200
output current	< 100 mA
alarm output	push-pull
short circuit protection	yes
reverse polarity protection	yes, Vs to GND

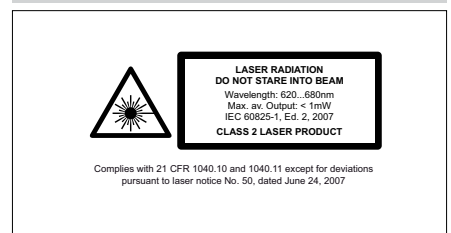
mechanical data

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



laser warning



remarks

The sensor has a switching output (out) that is activated when the measurement is determined within the range between threshold 1 and threshold 2. Both thresholds can be set via interface.

Distance sensors

OADM 20 (Laser, RS485 interface, > 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	ambient light immunity
OADM 20S4471/S14F	100 ... 500 mm	point	-	-	2 mm	< 16 kLux
OADM 20S4481/S14F	200 ... 1000 mm	point	-	-	2 mm	< 3 kLux
OADM 20S4571/S14F	100 ... 500 mm	line	2,5 mm	5,5 ... 18 mm	-	< 12 kLux
OADM 20S4581/S14F	200 ... 1000 mm	line	2,5 mm	8,5 ... 35 mm	-	< 2,5 kLux