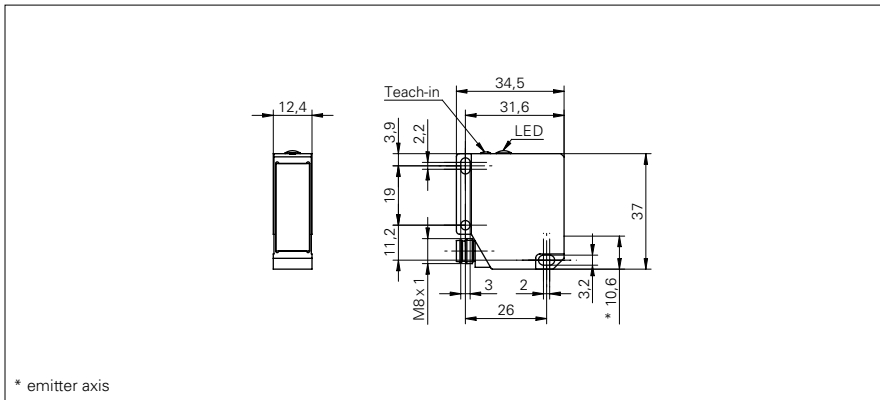


Distance sensors

OADM 12 (Laser)

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
beam type	point
interference suppression	< 30 ms

measuring distance Sd = 16 ... 26 mm

Teach-in range min.	> 1 mm
resolution	0,002 ... 0,005 mm
linearity error	± 0,006 ... ± 0,015 mm
beam diameter	0,5 ... 0,2 mm

measuring distance Sd = 16 ... 120 mm

Teach-in range min.	> 2 mm
resolution	0,002 ... 0,12 mm
linearity error	± 0,015 ... ± 0,35 mm
beam diameter	0,9 ... 0,5 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
short circuit protection	yes
reverse polarity protection	yes, Vs to GND

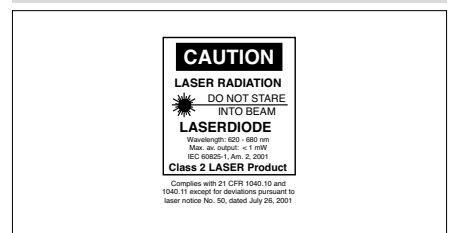
mechanical data

width / diameter	12,4 mm
height / length	37 mm
depth	34,5 mm
type	rectangular
housing material	die-cast zinc
front (optics)	glass
connection types	connector M8 4 pin

sample picture



laser warning



remarks

For objects with a reflectivity < 4 %, the response time / release time is increased automatically up to max. 1,5 ms.

Missed measurement up to 30 cycles (30 ms) will be suppressed. During this time the analog output stays on hold.

Distance sensors

OADM 12 (Laser)

ambient conditions

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

order reference	output signal	load resistance	measuring distance Sd
OADM 12I6430/S35A	4 ... 20 mA	< (+Vs - 6 V) / 0,02 A	16 ... 26 mm
OADM 12I6460/S35A	4 ... 20 mA	< (+Vs - 6 V) / 0,02 A	16 ... 120 mm
OADM 12U6430/S35A	0 ... 10 VDC	> 100 kOhm	16 ... 26 mm
OADM 12U6460/S35A	0 ... 10 VDC	> 100 kOhm	16 ... 120 mm