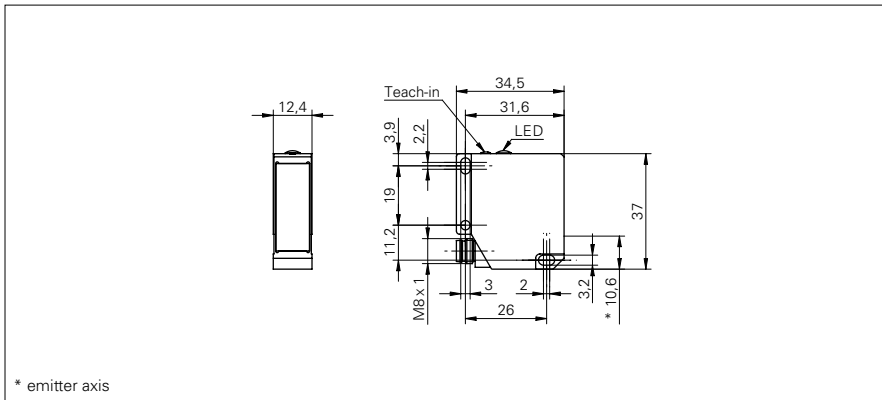


Distance sensors

OADM 12 (Laser)

sample drawing



general data

sensing element	photoelectric array
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	675 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



Distance sensors

OADM 12 (Laser)

ambient conditions

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

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