

Sd = 50 ... 550 mm

- compact housing, current output
- teachable measuring range
- resolution up to 10 µm

**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
interference suppression	< 30 ms

measuring distance Sd = 50 ... 350 mm

Teach-in range min.	> 5 mm
resolution	0,01 ... 0,4 mm
linearity error	± 0,05 ... ± 1,2 mm

measuring distance Sd = 50 ... 550 mm

Teach-in range min.	> 10 mm
resolution	0,01 ... 1,1 mm
linearity error	± 0,08 ... ± 3,5 mm

electrical data

voltage supply range +Vs	12 ... 28 VDC
current consumption max.	100 mA
output circuit	analog
output signal	4 ... 20 mA
load resistance	< (+Vs - 6 V) / 0,02 A
short circuit protection	yes
reverse polarity protection	yes, Vs to GND

measuring distance Sd = 50 ... 350 mm

response time / release time	< 0,9 ms
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measuring distance Sd = 50 ... 550 mm

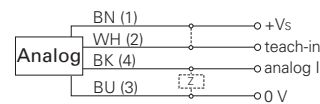
response time / release time	< 1,5 ms
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mechanical data

width / diameter	13,4 mm
height / length	48,2 mm
depth	40 mm
type	rectangular
housing material	aluminum
front (optics)	glass
connection types	connector M8, 4 pin

ambient conditions

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

connection diagram**connectors**

ESG 32AP0500G	4 pin	5 m straight (shielded)
ESW 31AP0500G	4 pin	5 m angular (shielded)

additional cable connectors and field wireable connectors, see accessories

accessories

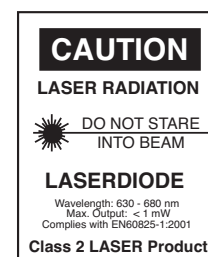
SENSOFIX mounting kit	161829
mounting bracket	161695

for details, see accessories section

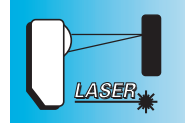
remarks

For objects with a reflectivity < 10%, the response time / release time is increased automatically up to max. 3 ms (OADM 13x6x75/S35A) resp. 5 ms (OADM 13x6x80/S35A).

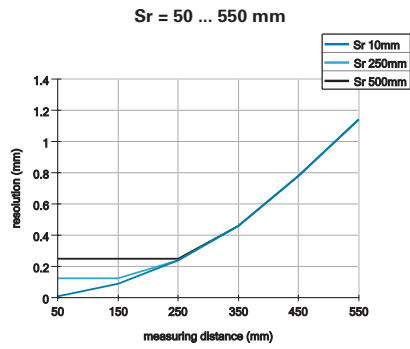
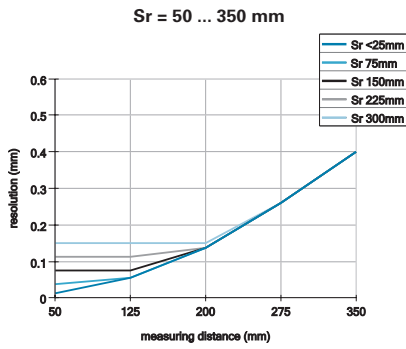
Missed measurement up to 30 cycles (30 ms) will be suppressed. During this time the analog output stays on hold.

laser warning

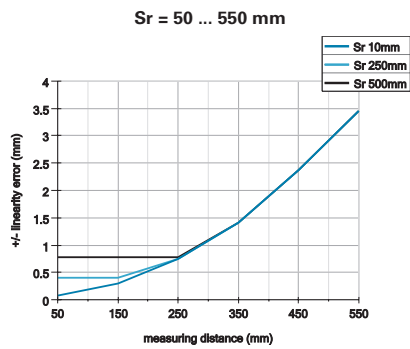
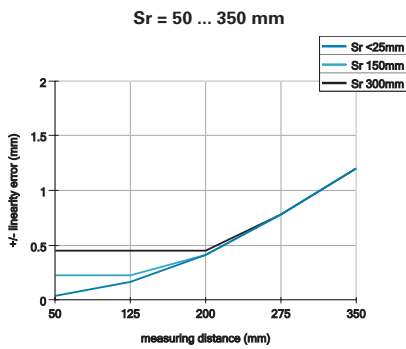
order reference	measuring distance Sd	beam type	beam width	beam height	beam diameter
OADM 13I6475/S35A	50 ... 350 mm	point	-	-	1 mm
OADM 13I6480/S35A	50 ... 550 mm	point	-	-	1 mm
OADM 13I6575/S35A	50 ... 350 mm	line	2 mm	4 ... 9 mm	-
OADM 13I6580/S35A	50 ... 550 mm	line	2 mm	4 ... 13 mm	-



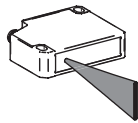
resolution



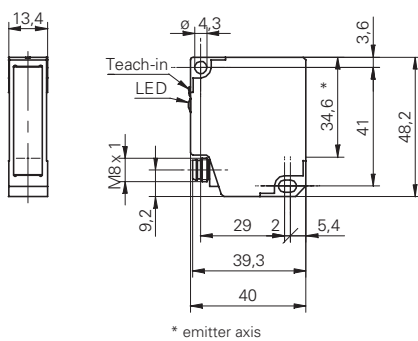
linearity error

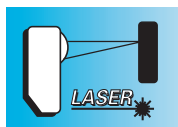


beam alignment (line)



dimension drawing





Sd = 50 ... 550 mm

- compact housing, voltage output
- teachable measuring range
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OADM 13 Sd = 50 ... 550 mm

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measuring distance Sd = 50 ... 550 mm

Teach-in range min.	> 10 mm
resolution	0,01 ... 1,1 mm
linearity error	± 0,08 ... ± 3,5 mm

electrical data

voltage supply range +Vs	12 ... 28 VDC
current consumption max.	80 mA
output circuit	analog
output signal	0 ... 10 VDC
load resistance	> 100 kOhm
short circuit protection	yes
reverse polarity protection	yes, Vs to GND

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response time / release time	< 0,9 ms
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measuring distance Sd = 50 ... 550 mm

response time / release time	< 1,5 ms
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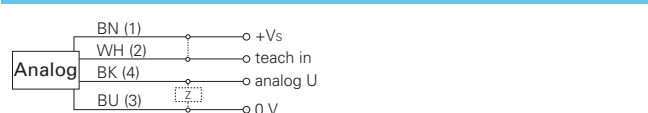
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connection diagram



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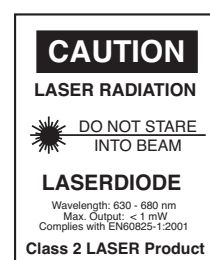
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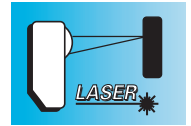
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laser warning

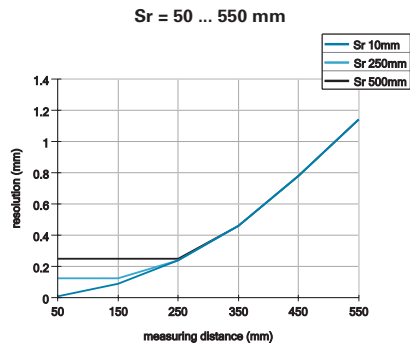
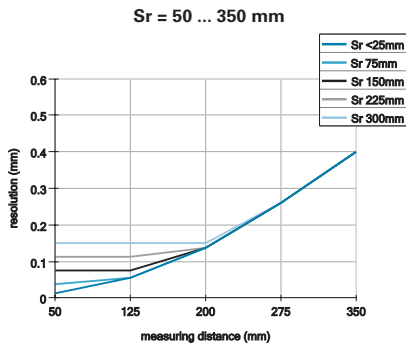


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OADM 13U6580/S35A	50 ... 550 mm	line	2 mm	4 ... 13 mm	-

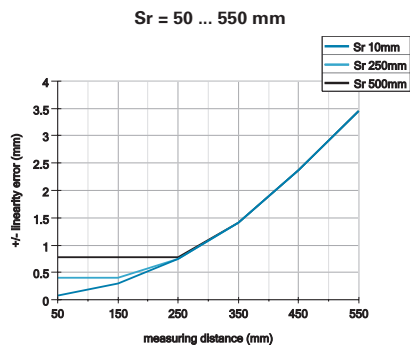
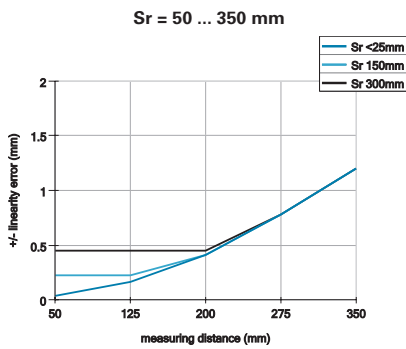
Distance sensors



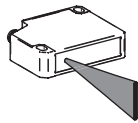
resolution



linearity error



beam alignment (line)



dimension drawing

