Laser distance sensor Type OADM

Fast version

50...300 mm	100...600 mm

part number		OADM 20I6x72/S14F	OADM 20I6x80/S14F
laser point	index	4	4
laser line	index	5	5

technical data			
measuring range		50...300 mm	100...600 mm
min. Teach-in range		5 mm	10 mm
resolution (matte white ceramic)		0,02...0,35 mm	0,03...0,6 mm
linearity error (matte white ceramic)		±0,9 mm	±2 mm
response time		< 900 µs	< 900 µs
sensing element		photoelectric array	photoelectric array
analog output [1]		4 - 20 mA / 0 - 10 VDC	4 - 20 mA / 0 - 10 VDC
alarm output		PNP	PNP
max. switching current		100 mA	100 mA
power indicator		green LED	green LED
soiled lens indicator		red LED	red LED
voltage supply range		12-28 VDC	12-28 VDC
max. supply current		< 120 mA	< 120 mA
light source		pulsed red laser diode	pulsed red laser diode
laser class		2	2
wave length		675 nm	675 nm
reverse polarity protection (voltage supply only)		yes	yes
short circuit protection		yes	yes
housing material		die-cast zinc	die-cast zinc
protection class		IP 67	IP 67
temperature range		0...+50 °C	0...+50 °C
laser beam data			
laser beam diameter	OADM 20I64xx/S14F	2 mm	2 mm
laser beam height	OADM 20I65xx/S14F	4...12 mm	5,5...21 mm
laser beam width	OADM 20I65xx/S14F	2,5 mm	2,5 mm

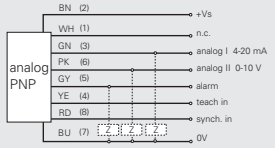
[1] After power-on, the sensor checks the current output GN (3) for current. If positive, the current output is automatically activated. If negative, the sensor will automatically switch to the voltage output PK (6) after 100 ms.

LASER

Series 20

- Teachable measuring range
- High resolution optimized by Teach-in
- Response time < 900 µs
- Excellent linearity of output signal due to microprocessor technology
- Accurate distance measurement against different surfaces
- Laserline for distance measuring on rough surfaces
- Synchronization input

connection diagram



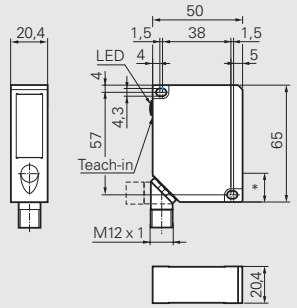
accessories

mounting bracket	131521
process controller	BPCD45 see end of this chapter

connectors

ESG 34FP0200B 8 pin 2 m PUR (shielded)

for details see accessories section



* Emitter axis 16 mm

Meas. range 30...70 mm 30...130 mm

Resolution to 0,005 mm and 0,01 mm

Response time <900 µs

Teachable measuring range

CAUTION
LASER RADIATION
DO NOT STARE INTO BEAM
LASERDIODE
Wavelength: 630 - 680 nm
Max. Output: < 1 mW
Class 2 LASER Product

IEC 825-1/1996 21CFR 1040.10

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