Laser distance sensor Type OADM

Fast version

200...1000 mm

part number		OADM 20I6x81/S14F
laser point	index	4
laser line	index	5

technical data		
measuring range		200...1000 mm
min. Teach-in range		20 mm
resolution (matte white ceramic)		0,2...3 mm
linearity error (matte white ceramic)		± 1,2 % measuring distance
response time		< 900 µs
sensing element		photoelectric array
analog output [1]		4 - 20 mA / 0 - 10 VDC
alarm output		PNP
max. switching current		100 mA
power indicator		green LED
soiled lens indicator		red LED
voltage supply range		12 - 28 VDC
max. supply current		< 120 mA
light source		pulsed red laser diode
laser class		2
wave length		675 nm
reverse polarity protection (voltage supply only)		yes
short circuit protection		yes
housing material		die-cast zinc
protection class		IP 67
temperature range		0...+50 °C
laser beam data		
laser beam diameter	OADM 20I64xx/S14F	2 mm
laser beam height	OADM 20I65xx/S14F	8,5...35 mm
laser beam width	OADM 20I65xx/S14F	2,5 mm

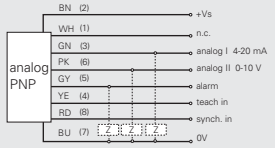
[1] After power-on, the sensor checks the current output GN (3) for current. If positive, the current output is automatically activated. If negative, the sensor will automatically switch to the voltage output PK (6) after 100 ms.

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



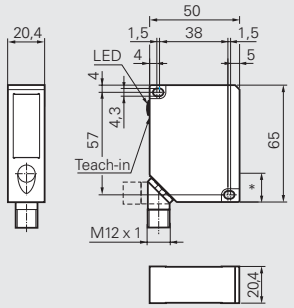
accessories

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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