Laser distance sensor
Type OADM

Laser distance sensor

30...50 mm	30...130 mm

part number	
analog interface	index
analog RS 485	index
laser point	index
laser line	index

OADM 20x4x40/S14x	OADM 20x4x60/S14x

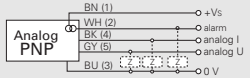
technical data			
measuring range		30...50 mm	30...130 mm
resolution (white paper)		0,01 mm	0,06 mm
linearity error (white paper)		±0,03 mm	±0,2 mm
response time		< 10 ms	< 10 ms
sensing element		photoelectric array	photoelectric array
analog output		4-20 mA / [1](0 - 10 VDC)	4 - 20 mA / [1](0 - 10 VDC)
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		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 20x44x0/S14x	0,2...1 mm	1...2 mm
laser beam height	OADM 20x45x0/S14x	3,5...40 mm	3,5...40 mm
laser beam width	OADM 20x45x0/S14x	1 mm	1 mm
	[1] voltage output 0 - 10 VDC	in preparation	in preparation

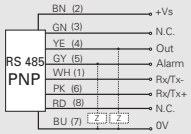
- **Medium measuring range**
- **Accurate distance measurement against different surfaces**
- **High resolution**
- **Excellent linearity of output signal due to microprocessor technology**
- **Soiling indicator and alarm output**
- **Current/voltage or RS 485 interface**
- **Laserline for distance measuring on rough surfaces**

LASER

Series 20

connection diagram





accessories

mounting bracket	131521

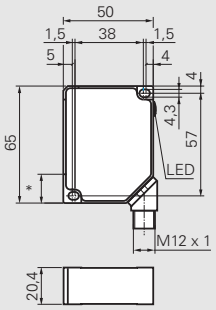
connectors

ES 34CP5B	5 pin 5 m PUR (shielded)
ES 34AP2B	4 pin 2 m PUR (shielded)
ESG 34FP0200B	8 pin 2 m PUR (shielded)

suitable to

Analog interface (voltage/current)
Analog interface (only use for current output)
RS 485 interface

for details see accessories section



* Emitter axis 16 mm

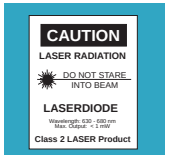
Measuring range 30...50 mm

Measuring range 30...130 mm

Excellent resolution 0,01 mm

Response time 10 ms

Metal housing



IEC 825-1/1996
21CFR 1040.10

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