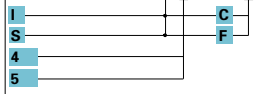
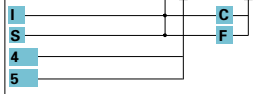
Laser distance sensor
Type OADM

Laser distance sensor

50...250 mm	100...500 mm

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

OADM 20x4x70/S14x	OADM 20x4x71/S14x
	

technical data			
measuring range		50...250 mm	100...500 mm
resolution (white paper)		0,3 mm	0,5 mm
linearity error (white paper)		± 0,9 mm	± 1,5 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
laser beam diameter		2 mm	2 mm
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	2 mm	2 mm
laser beam height	OADM 20x45x0/S14x	4...9,5 mm	5,5...16,5 mm
laser beam width	OADM 20x45x0/S14x	1 mm	1 mm

[1] voltage output 0 - 10 VDC

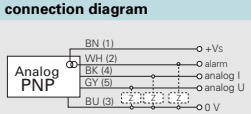
in preparation	in preparation

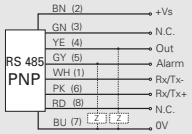
- **Wide measuring range**
- **Accurate distance measurement against different surfaces**
- **High resolution**
- **Excellent linearity of output signal due to microprocessor technology**
- **Soiling indicator and alarm output**
- **Current/voltage or RS 485 interface**
- **Laserline for distance measuring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

for details see accessories section

suitable to

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

Measuring range 50...250 mm

Measuring range 100...500 mm

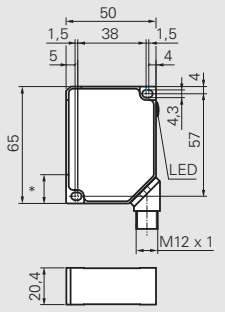
Resolution 0,3 mm

Response time 10 ms

Metal housing

CAUTION
LASER RADIATION
DO NOT STARE INTO BEAM
LASERDIODE
Class 2 LASER Product

IEC 825-1/1996
21CFR 1040.10



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