Laser distance sensor
Type OADM

The OADM laser distance sensor has been designed for applications requiring continuous and very precise distance information. The analog laser sensor accurately measures the distance to a target based on the triangulation principle. Microprocessor technology has been incorporated for further optimizing the analog 4 - 20 mA current output signal. The sensor features a wide measuring range from 30...130 mm and an excellent 0,06 mm resolution. Response time is 10 ms. Should environmental conditions deteriorate an auxiliary output provides a warning signal well before the device fails to operate. The sensor's compact 50x65x20 mm size metal enclosure is equipped with a turret style quick disconnect connector.

Laser distance sensor with linear photodiode array

- accurate distance measuring against differing surfaces in the 30...130 mm measuring range.
- excellent linearity of output signal due to microprocessor technology
- on request the laser beam can be widened up to a fine line. This enables averaging of received signal when target surfaces are rough
- soiling indicator as well as alarm output assure reliable data
- optional: - teach-input/switching output
  - serial interface RS 485

Laser distance sensor

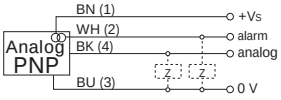
sensing range 30...130 mm

preliminary datasheet

Analog	output 4-20 mA
	OADM 20I4460/S14C

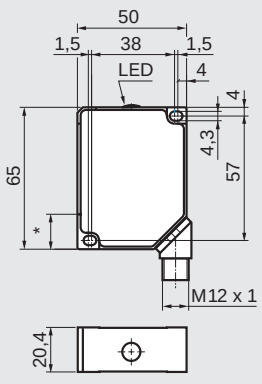
technical data	
measuring range	30...130 mm
resolution (white paper)	0,06 mm
linearity error (white paper)	±0,2 mm
rise time	< 10 ms
analog output	4 - 20 mA
alarm output	PNP
max. switching current	100 mA
power indicator	green LED
soiled lens indicator	red LED
voltage supply range	12-28 VDC
max. supply current	< 120 mA
light source	pulsed red laser diode
laser class	2
wave length	675 nm
laser beam diameter	0,1...1,5 mm
reverse polarity protection	yes
short circuit protection	yes
housing material	zinc diecast
protection class	IP 67
temperature range	0...+50 °C

connection diagram



5 pole connectors

ES 33CP2 angular	2 m PUR
ES 34CP2 straight	2 m PUR



*Emitter axis 16 mm

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