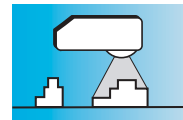


## Pocket-size line sensor



- Integrated light and analysis
- Teachable
- Analog output
- Switching output
- RS 485
- Rotatable connector



# Pocket-size line sensor *PosCon*

The acquisition of widths, edges or center positions can be selected with ease via the simple control buttons on the sensor. These highly accurate values are available as an analog output or from the optional RS 485 interface. With the help of the integrated Teach-in function measuring ranges can be read in and programmed. Even though smaller than a cigarette packet, the *PosCon* contains all the controls, signal processing and a long life illumination unit as well.

- There are 3 standard measuring ranges. For each measuring range, there is a reflector or a tape in the right size.

- The 3 different measuring modes (width, edge, center) are teachable via the onboard controls, and remain even after power is removed from the sensor.

- Two measuring values can be programmed via the Teach-in controls and used as tolerance limits for the switching output.

- All control functions can be remotely activated via the optional RS 485 interface.

• **Width measurement:**

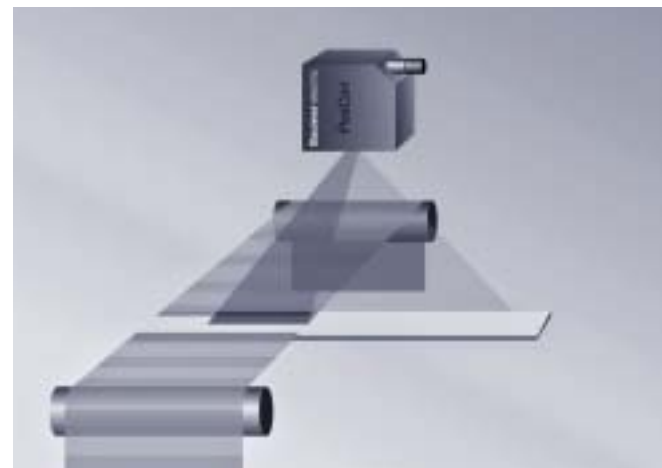
Width measurement of textile, synthetics, paper, or film with detection of both break and tear. Tool control, fill level and in-line quality inspection.

• **Edge position:**

Because of its high precision the sensor is ideally suited to use for applications in the packaging, handling and graphics industry.

• **Center position:**

Guidance and control of objects in the measuring field. Suitable for tasks found in the conveying, warehouse, and special machine industries.



# Series 22

- Integrated light and analysis
- Teachable
- Analog output 4...20 mA
- Switching outputs
- RS 485
- Rotatable connector
- With polarization filter for transparent objects

without polarization filter

Polarization filter

Measuring ranges: 30 mm, 150 mm, 350 mm



part number	
analog interface	ind.
analog interface and RS 485	ind.
measuring ranges 30 / 150 / 350 mm	ind.
switching outputs 1 / 2	ind.
switching output PNP / NPN	ind.

ZADM 022xxxx.00xx	
K	
H	
300 / 151 / 351	
0 / 1	
1 / 2	

ZADM 022xxxx.01xx	
K	
H	
300 / 151 / 351	
0 / 1	
1 / 2	

technical data	
measuring ranges	
measuring distance to the object	
smallest recognizable object	
resolution	
reflector width	
light source / wave length	
linearity error	
measuring frequency	
analog output	
switching output	
voltage supply	
current consumption	
max. switching current	
reverse polarity protection, short circuit protection	
temperature range	
front (optics)	
housing	
protection class	

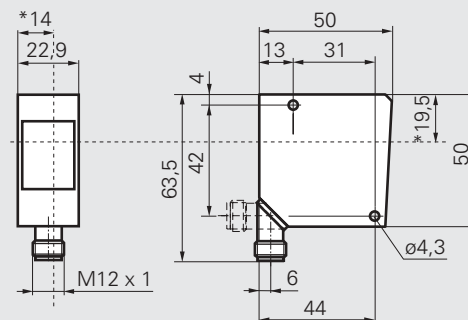
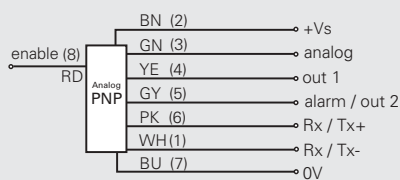
30 mm	150 mm	350 mm
50 mm	200 mm	500 mm
0,3 mm	1,2 mm	4 mm
0,03 mm	0,15 mm	0,35 mm
3 mm	15 mm	30 mm
infrared LED / 880 nm		
max. 1%		
> 130/sec		
4...20 mA		
PNP / NPN		
15 - 28 VDC		
< 150 mA		
100 mA		
yes		
0...+55 °C		
glass		
die-cast zinc		
IP 67		

30 mm	150 mm	350 mm
50 mm	200 mm	500 mm
0,3 mm	1,2 mm	4 mm
0,03 mm	0,15 mm	0,35 mm
3 mm	15 mm	30 mm
infrared LED / 880 nm		
max. 1%		
> 120/sec		
4...20 mA		
PNP / NPN		
15 - 28 VDC		
< 150 mA		
100 mA		
yes		
0...+55 °C		
glass		
die-cast zinc		
IP 67		

accessories	
measuring range	30 mm
measuring range	150 mm
measuring range	350 mm
measuring range	610 mm (width)
connection	8-pin (M12 x 1)
mounting bracket	
process controller	

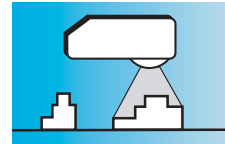
reflector	reflector tape (on reel)	reflector tape per piece
FTDR 005I040	FTDL 005I000/..m	FTDL 005I040 L = 40 mm
FTDR 020I175	FTDL 020I000/..m	FTDL 020I175 L = 175 mm
FTDR 035I395	FTDL 035I000/..m	FTDL 035I395 L = 395 mm
	FTDL 610I000/..m	
	ESG 34FP0200B	
	126220	
	see end of the laser distance sensors chapter	

## connection diagram



\* receiver axis

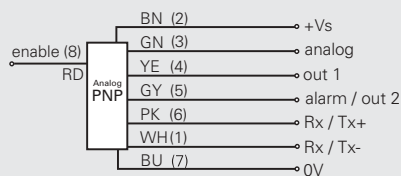




## Series 22

- Large measuring range up to 875 mm
- Large measuring distance up to 1400 mm
- Integrated light and analysis
- Teachable switching outputs
- Analog output 4...20 mA

### connection diagram



Large measuring range

Large measuring distance

Teachable switching outputs

### correction factors

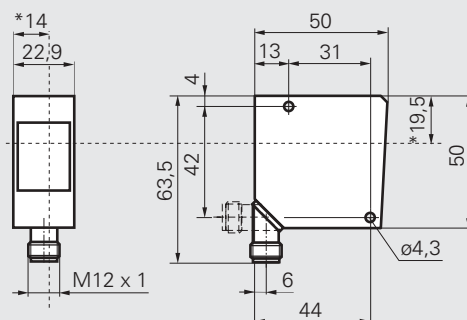
measuring distance (mm)	measuring range (mm)	measuring distance (mm)	resolution (mm)
640	400	640	0,46
1400	875	1400	1
<b>meas. distance : meas. range = 1,6</b>		<b>meas. distance : resolution = 1400</b>	

measuring distance (mm)	smallest object (mm)	example	desired measuring range = 650 mm
640	8,23	meas. distance	650 mm x 1,6 = 1040 mm
1400	18	resolution	1040 mm : 1400 = 0,75 mm
<b>meas. distance : smallest obj. = 77,7</b>		smallest object	1040 mm : 77,8 = 13,4 mm

### accessories

reflector tape 50 mm width	FTDL 050I000/..m
connection 8-pin (M12 x 1)	ESG 34FP0200B
mounting bracket	126220
process controller	BPCD45 (see end of the laser distance sensors chapter)

for details see accessories section



\* receiver axis