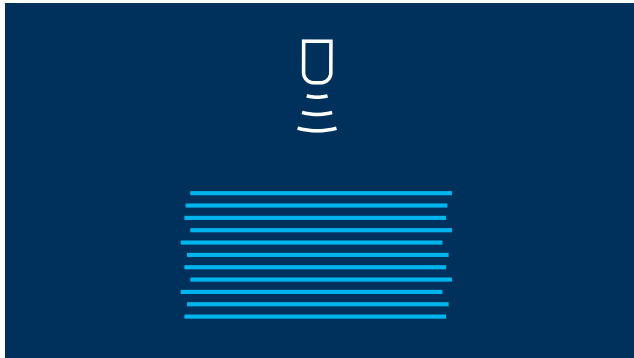


# Stacking height control



## application areas

Printing and Paper

Logistics

Packaging

Whether wooden boards, panes of glass, sheets of paper or coloured plastic panels, ultrasonic sensors are ideal for measuring the height of stacks with millimetre precision.

## Further application: Stack centering

In addition to stack height measurement, the zws ultrasonic sensors can also be used for stack centering in the infeed of printing presses. The sensor precisely and non-contact detects the lateral position of the paper stack—regardless of surface texture or color—ensuring optimal alignment for smooth and error-free operation.

## The right sensor family for your application

Depending on the measuring range and housing design, there are three sensor families to choose from:

- **mic+ with M30 threaded sleeve:** measuring range from 30 mm to 8 m for large stacks,
- **pico+ with M18 metal sleeve:** measuring range from 20 mm to 1.3 m for small stacks,
- **zws in a miniature cubic housing:** measuring range from 20 mm to 1 m for small stacks.

# SENSORS FOR THIS APPLICATION AREA



## **mic+**

**housing:** M30 sleeve  
**detection ranges:** 250 mm, 350 mm, 1,300 mm, 3,400 and 6,000 mm  
**outputs:** 1x Push-Pull, 2x pnp, 4-20 mA and 0-10 V, 1x pnp + analogue  
**special feature:** digital display



## **pico+**

**housing:** M18 all-metal sleeve  
**detection ranges:** 250 mm, 350 mm, 600 mm and 1,300 mm  
**outputs:** 1x Push-Pull, 4-20 mA or 0-10 V  
**special feature:** 90° angular head



## **zws**

**housing:** miniature cubic housing  
**detection ranges:** 150 mm, 240 mm, 250 mm, 350 mm and 700 mm  
**outputs:** 1x pnp or npn, 4-20 mA or 0-10 V  
**special feature:** zws-7 with 250 Hz switching frequency