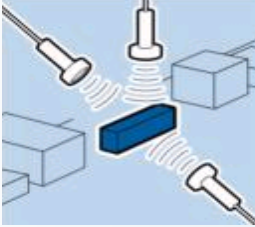


Positioning

When scanning panes of glass or other smooth, flat surfaces, care should be taken to ensure that the ultrasonic sensor scans perpendicular to the surface.



Height and width measurements

By using several **mic+ ultrasonic sensors** or **pico+ ultrasonic sensors**, three-dimensional scanning of any size box can be made. There are sensors with different detection ranges available.



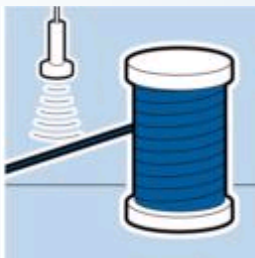
Level control

Detection of filling levels from just a few millimetres up to 8 m can be made. Ultrasonic sensors with one or two switched outputs for minimum/maximum control, or with 0-10 V and 4-20 mA analogue output are available. Chemical resistant versions are also available with **crm+** or **hps+ ultrasonic sensors**.



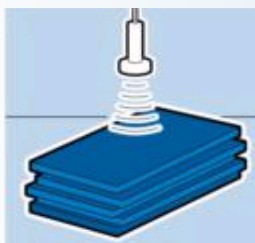
Quality control

on a packaging machine. A broad spectrum of ultrasonic sensors are available for the detection of objects during fast processes: the **zws ultrasonic sensors** in square-shaped housing, the **sks sensors** in miniature design, the **pico+ultrasonic sensors** in the M18 threaded sleeve with optional angled head and **IO-Link interface**.



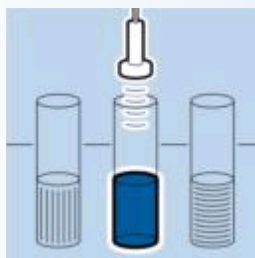
Wire break detection

during the winding/unwinding of wires. Depending on the size of the drum, a **mic+130/D/TC** with 1,300 mm operating range or a **mic+35/D/TC** with 350 mm operating range can be used. If the position of the wire on the drum should be recorded, there are ultrasonic sensors with analogue output available.



Stacking height control

Whether wooden boards, panes of glass, sheets of paper or coloured plastic panels, ultrasonic sensors are ideal for detecting the height accuracy to millimetre precision.



Filling level monitoring in small containers

Detection of filling levels from just a few millimetres up to 8 m can be made. Ultrasonic sensors with one or two switched outputs for minimum/maximum control, or with 0-10 V and 4-20 mA analogue output are available. Even in small containers with a diameter of less than 5 mm can be measured with the **zws ultrasonic sensor + SoundPipe**.