

Note

Function

A through-beam ultrasonic barrier always consists of a single transmitter and a single receiver. The function of a through-beam ultrasonic barrier is based in the interruption of the sound transmission to the receiver by the object to be detected. The transmitter sends an ultrasonic signal that is evaluated by the receiver. If the signal is interrupted or muted by the object to be detected, the receiver switches. No electrical connections are required between the transmitter and receiver. The function of through-beam ultrasonic barriers is not dependent on the position of their installation. We recommend, however, to install the transmitter below in the case of vertical installations to prevent the accumulation of dust particles.

Installation tolerances:

The installation tolerances of the central axes of the transmitter and receiver may not exceed the values specified in the illustration.

Detection of thin foils

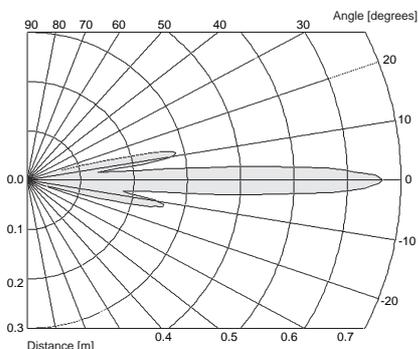
For the detection of thin foils (< 0.1 mm), install the through-beam ultrasonic barrier at an angle of $\geq 10^\circ$ from perpendicular to the foil.

Model number

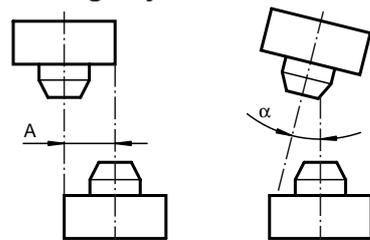
UBE500-F64-SE0-V3

Characteristic curves/ Additional information

Characteristic response curves



Mounting/Adjustment



Parallel displacement
 $A \leq 8 \text{ mm}$

Angle displacement
 $\alpha \leq 5^\circ$

