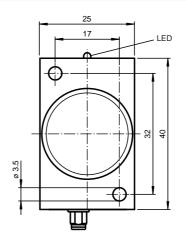
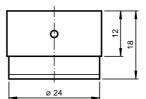
Single path barrier UBE500-F64-SE0-V3

Features

- Reliable detection of transparent materials
- High switching frequency
- Small angle of divergence
- Small, compact design
- · Plastic housing
- Transmitter and receiver included in the delivery package





CE

Technical data

General specifications

Dimensions

Sensing range Reference target Transducer frequency Standard conformity Indicating/Operating means LED yellow Electrical specifications Rated operational voltage U_e No-load supply current I₀

Output

Output type Rated operational current Ie Voltage drop U_{d} Switching frequency f Switch-on delay t_{on} Ambient conditions Ambient temperature Storage temperature Mechanical specifications Protection degree Connection type Material Housing Mass

0 ... 500 mm, distance emitter-receiver 15 mm ... 500 mm Receiver 200 kHz EN 60947-5-2

switching state switch output

10 ... 30 V DC, ripple 10 %_{SS} 20 mA Receiver 12 mA emitter

1 switch output E0, npn NO 50 mA ≤ 0.5 V 100 Hz < 5 ms

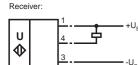
0 ... +60 °C (273 ... 333 K) -40 ... 85 °C (233 ... 358 K)

IP54 V3 connector (M8 x 1), 3 pin

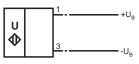
PA 6.6 80 g each sensor

Electrical connection

Standard symbol/Connection:







Subject to reasonable modifications due to technical advances

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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

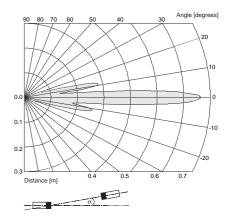
For the detection of thin foils (< 0.1 mm), install the through-beam ultrasonic barrier at an angle of $\geq 10^{\circ}$ from perpendicular to the foil.

Model number

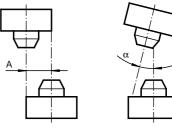
UBE500-F64-SE0-V3

Characteristic curves/ Additional information

Characteristic response curves



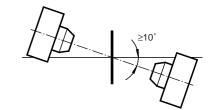
Mounting/Adjustment



Parallel displacement Angle displacement $A \le 8 \text{ mm}$

 $\alpha \leq 5$

4



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