



### Model Number

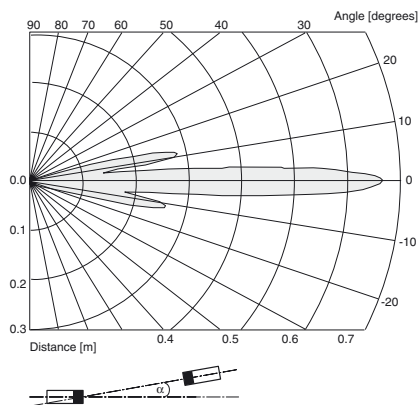
UBE500-F64-SE0-V3

### Features

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

### Curves

#### Characteristic response curves



### Technical data

#### General specifications

Sensing range	0 ... 500 mm , distance emitter-receiver 15 mm ... 500 mm
Transducer frequency	200 kHz
Reference target	receiver

#### Indicators/operating means

LED yellow	indication of the switching state (receiver)
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#### Electrical specifications

Operating voltage $U_B$	18 ... 30 V DC , ripple 10 % <sub>SS</sub>
No-load supply current $I_0$	20 mA receiver 12 mA emitter

#### Output

Output type	1 switch output E0, npn NO
Rated operational current $I_e$	50 mA
Voltage drop $U_d$	$\leq 0.5$ V
Switch-on delay $t_{on}$	$< 5$ ms
Switching frequency $f$	100 Hz

#### Ambient conditions

Ambient temperature	0 ... 60 °C (273 ... 333 K)
Storage temperature	-40 ... 85 °C (233 ... 358 K)

#### Mechanical specifications

Protection degree	IP54
Connection	V3 connector (M8 x 1), 3 pin
Material	
Housing	PA 6.6
Mass	80 g per device

#### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007



of vertical installations to prevent the accumulation of dust particles.

**Installation tolerances**

The installation tolerances of the central axes of the emitter 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.

**Caution**

Mount or replace emitter and receiver only in pairs. Both devices are optimally matched to each other by the manufacturer.

## Accessories

**Mating connectors**

V3-GM-5M-PUR

V3-WM-2M-PUR

For further information refer to chapter „Accessories“.