UBE4000-30GM-SA2-V1-Y111119



CE

Model Number

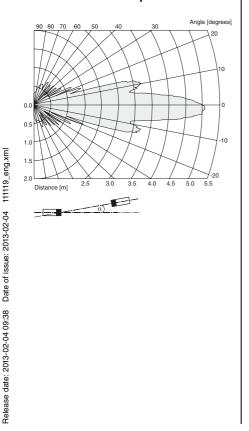
UBE4000-30GM-SA2-V1-Y111119

Features

- Reliable detection of transparent materials
- High switching frequency
- Small angle of divergence
- Protective functions
- Emitter and receiver included in the delivery package
- · Adjustable acoustic power
- · Adjustable switch-on delay
- Switch-off delay 100 ms

Diagrams

Characteristic response curves



Technical data

General specifications Sensing range Reference target Transducer frequency Indicators/operating means LED green

LED yellow

Electrical specifications Operating voltage U_B No-load supply current I₀

Output Output type

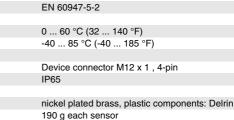
Rated operating current I_e Voltage drop U_d

- Switch-on delay t_{on} Switch-off delay t_{off}
- Standard conformity
- Standards
- Ambient conditions
- Ambient temperature
- Storage temperature Mechanical specifications Connection type Protection degree
- Material Housing
- Mass

Emitter:

Dimensions

Dimensions:



0 ... 4000 mm

alignment aid OFF: no ultrasonic signal flashing: uncertain area ON: positive reception

switching state

35 mA emitter 25 mA receiver

(complementary)

200 mA

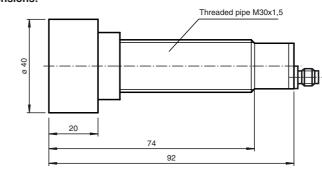
≤ 2.5 V 30 ... 3000 ms

100 ms

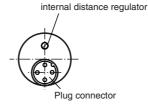
18 ... 30 V DC , ripple 10 %_{SS}

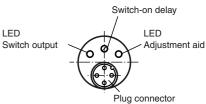
2 switch outputs PNP, normally open/closed

receiver 120 kHz



Receiver:



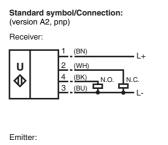


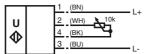
Subject to reasonable modifications due to technical advances.

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Electrical Connection





Core colours in accordance with EN 60947-5-2.

Pinout



Notes

Remote potentiometer

The distance range of the through-beam ultrasonic barrier can be adjusted with the potentiometer integrated in the transmitter, or via a remote potentiometer connected to the transmitter.

The remote potentiometer simplifies the adjustment of the distance range if the sensors are installed in an inaccessible location. A 10 k Ω /0.3 W potentiometer serves as the remote potentiometer. The connection is realised using the plug connector pins 2 and 4 of the transmitter (see: Electrical Connection).

The following distance ranges can be set using the remote potentiometer:

Adjustment of the internal distance reg- ulator	Distance range adjusta- ble via remote potenti- ometer
Minimum switching point	0 m 2 m
Maximum switching point	0 m 4 m

When operating without a remote potentiometer, the plug connector pins 2 and 4 must be bridged.

Alignment:

When adjusting the transmitter and receiver, take care to align them as precisely as possible.

Angular tolerance:	α < +/- 2°
Maximum offset:	s < +/- 5 mm

A through-beam ultrasonic barrier consists of a single transmitter and a single receiver.

Additional Information

Alignment

