

CE

Model Number

UB300-18GM-E22-V1

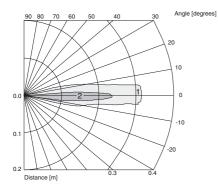
Single head system

Features

- 2 independent switch outputs
- Adjustable switch points •
- V1 plug connection •
- Temperature compensation ٠

Diagrams

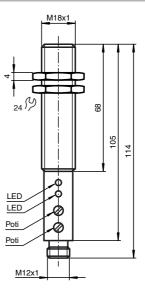
Characteristic response curve



Curve 1: flat surface 100 mm x 100 mm Curve 2: round bar, Ø 25 mm

С S A N Dimensions

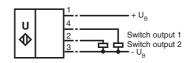
65 ... 300 mm 0 ... 65 mm 100 mm x 100 mm approx. 400 kHz ≤ 50 ms 20 ... 30 V DC , ripple 10 $\%_{\rm SS}$ 25 mA 2 switch outputs PNP, NO/NC 200 mA , short-circuit protected, reverse polarity protected ≤ 2.5 V ±1 mm ≥ 10 Hz 3 mm ±5 mm EN 60947-5-2 0 ... 50 °C (32 ... 122 °F) -25 ... 85 °C (-13 ... 185 °F) Device connector M12 x 1 , 4-pin IP65 brass, nickel-plated epoxy resin/hollow glass sphere mixture; polyurethane foam



74 g

Electrical Connection

Standard symbol/Connection:



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Pinout



Function

The measurement of the distance is realised using the echo time of the ultrasonic pulse. The μ processor calculates the distance on the basis of the echo time and the speed of sound. Two independent switching points can be set with the potentiometers S1 and S2 (15 turns max.):

S1 for output 1

S2 for output 2

Both can use the entire 65 mm ... 300 mm range.

Note:

To prevent mutual interference, identical sensors should be installed with a minimum lateral distance of \geq 0.2 m. A minimum distance of \geq 1.5 m is required for opposed installation.

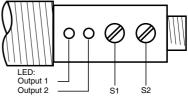
Installation conditions

If the sensor is installed at places, where the environment temperature can fall below 0 $^{\circ}$ C, for the sensors fixation, one of the mounting flanges BF18, BF18-F or BF 5-30 must be used.

In case of direct mounting of the sensor in a through hole using the steel nuts, it has to be fixed at the middle of the housing thread. If a fixation at the front end of the threaded housing is required, plastic nuts with centering ring (accessories) must be used.

Additional Information

Indicating/operating means



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