

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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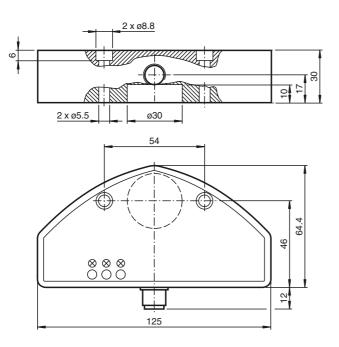
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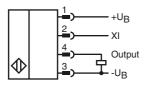
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Dimensions



Electrical Connection



Pinout

2

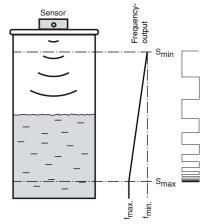


Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)
5	GY	(gray)

Additional Information

Function of the output







Accessories

V1-G-2M-PUR Female cordset, M12, 4-pin, PUR cable

V1-G-2M-PVC

Female cordset, M12, 4-pin, PVC cable

V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable

3RX4000-PF

PC interface

Application ranges

The design and function of this ultrasonic sensor make it ideal for filling level applications in small containers. The device has a frequency output. The frequency of the output signal is a measure of the current filling level.

Assembly and connection

All components are contained in an encapsulated housing. The ultrasonic converter is in a slightly recessed position in the housing. The integrated circumferential seal allows the sensor to be used directly as a closure with integrated filling level measurement. The tank opening must have a diameter of 26 mm. It can be mounted on the tank using 2 M5 screws. The electrical connection is based on a 5-pin device connector, M12 x 1. The connections are protected against reverse polarity, short circuits and overloads. Shielded cables are recommended if there is electrical interference.

Setting

As delivered, the measuring range limits and the averaging are fixed (see Technical data). They can subsequently be adapted to the application via SONPROG using the interface (see Accessories).

SONPROG

The following parameters can be changed via SONPROG:

- Measuring range limits S_{min} and S_{max}
- Frequency range
- Blind zone
- Averaging

Special programming options are available on request.

Operation

The filling level of a container is detected within the detection range. Filling levels between the measuring range limits (S_{min} , S_{max}) are displayed in the form of a rectangular signal with variable frequency. The frequency output delivers the smallest frequency value at filling level S_{min} and the highest frequency at filling level S_{max} . The frequency characteristic between the two measuring range limits is linear.

Objects in the blind zone cause cause false signals. Install in such a way that the filling level cannot enter the blind zone.

Function input XI

The sensor is placed in standby mode by connecting a low level at the function input XI. The sensors then performs no measurements. The outputs retain the most recent status. As soon as function input XI is disconnected from the low level or a high level is connected, the sensor resumes its normal function.

The function input XI can be used during operation for the synchronisation of multiple sensors. This can be done by connecting external signals, e.g. from a controller (external synchronisation) or by simply connecting the function inputs of all sensors to be synchronised (internal synchronisation).

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